

Gianluca Cavoto

Curriculum Vitae

Roma, 20 luglio 2023

Part I – General Information

Full Name	Gianluca Cavoto
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Part II – Education

Type	Year	Institution	Notes
Master graduation	1998	Dip.Fisica Sapienza	Thesis title: “ <i>CP Violation at BaBar: isospin analysis for $\sin 2\alpha$ measurement</i> ” (110/100 e lode)
Post-graduate studies	1998	INFN Sezione di Roma	Borsa per laureati
PhD XIV ciclo	1998-2001	Stanford Linear Accelerator Center	About 1.5 year with the BaBar experiment at SLAC
PhD graduation	2002	Dip. Fisica Sapienza	Thesis title: “ <i>Measurements of Branching Ratios and CP violating asymmetries in $B \rightarrow \pi\pi$ and $B \rightarrow K\pi$ decays with the BaBar experiment</i> ”

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2016	now	Dip. Fisica Sapienza	Associate professor

IIIB – Other Appointments

Start	End	Institution	Position
2005	2016	INFN Roma	Permanent Staff Researcher
2002	2004	Princeton University	PhD Staff Researcher (R.H. Dicke Fellow)
2002	2005	Dip.Fisica Sapienza	Research associate
2014			Abilitazione Nazionale <i>Associate prof.</i> 02/A1 FIS-01
2018			Abilitazione Nazionale <i>Full professor</i> 02/A1 FIS-01

Part IV – Teaching and tutoring experience

I am teaching experimental physics courses for the Master in Physics at Sapienza (LM-17). Every year about 80 students attend my laboratory classes.

I was one of the proponents and now one of the managers of the *Lascaia* program aiming at establishing a new European Joint Master degree in Accelerator Physics.

I directly supervised **10 PhD students**, I was supervisor or co-supervisor of **more than 20 master (laurea)** students. Some of my PhD students are now permanent researchers (E.Di Marco, M.Pelliccioni, F.Renga at INFN, E.Ripicini at EPFL). On average I was supervisor of about **two**

post-doc per year in the last 5 years – some of them are now permanent INFN staff researchers (L.Bandiera, F.Iacoangeli, A.Mazzolari).

Currently I also lead the **Job Placement** committee of the Physics department and I am responsible for stages (“*tirocini*”) of students at our Physics Department.

Year	Institution	Lecture/Course
2023	Facoltà di SMFN	Organization of the Career day for Science students at Sapienza
2020- now	Dip.Fisica Sapienza	Job Placement activity: organization of seminars by companies for students, contacts with the stakeholders of the Physics courses
2021- now	Dip.Fisica Sapienza	Sapienza coordinator for the <i>Lascaia</i> Erasmus Mundus Joint Master degree in Accelerator Physics
2017- now	Dip.Fisica Sapienza	Responsible of the Laboratory for Nuclear and Subnuclear Physics for master students in Physics.
2020- now	Dip.Fisica Sapienza	Mini-courses for <i>percorsi di eccellenza</i> (Physics bachelor)
2018- now	Dip.Fisica Sapienza	Physics Laboratory I and II (15 CFU, cv in <i>Particle and Astroparticle Physics</i> , now <i>Fundamental Interactions: Theory and experiment</i> , in English)
2017-2018	Dip.Fisica Sapienza	Physics Laboratory I and II (cv in <i>Particle and Astroparticle Physics</i> , 18 CFU – in English)
2018- now	Dip.Fisica Sapienza	Fisica per CTF (1 CFU)
2016-2017	Dip.Fisica Sapienza	Fisica per Farmacia (8 CFU)
2009- now	Dip.Fisica Sapienza	Tutor for groups of students in the Laboratory for Nuclear and Subnuclear Physics
2004-2007	Dip.Fisica Sapienza	Four semesters co-teaching general physics, mechanics and laboratory courses.
2000-2001	Dip.Fisica Sapienza	Three Semesters co-teaching general physics and particle physics

Part V – Coordination roles, society memberships, awards, honors.

Year	Title
2023- 2026	Joint Laboratories WG coordinator for Spoke 8 PE4 NQSTI (National Quantum Science and Technology Institute)
2023- 2026	Scientific contact of PE4 NQSTI (PNRR) in spoke 8 for Sapienza
2023- now	Coordinator of the scientific collaboration between Sapienza and Princeton Physics departments on carbon nanostructure for hydrogen and tritium loading
2023- now	<i>Responsible</i> of the joint INFN-Sapienza laboratory “TITAN- <i>Technology Innovation Through Advanced Nanostructures</i> ” for the Department of Physics.

2021- now	<i>Coordinator</i> of the Ptolemy WG for the cosmological neutrino target (graphene-based)
2021- now	<i>Member</i> of the management board of the aMUSE project – advanced Muon Campus in US and Europe
2021- now	<i>Member</i> of the management board of the Lascala Erasmus mundus project
2021- now	<i>Member</i> of the Sapienza task force for Task Force Erasmus Mundus Joint Master Degree
2021	<i>Responsible</i> of the laboratory “ <i>Nuovi Rivelatori</i> ” at the Department of Physics.
2021- now	<i>Chair</i> of the Steering committee of the <i>Amaldi Research Center</i> at Dip. di Fisica Sapienza
2020- now	<i>Chair</i> of Job Placement committee of Dipartimento Fisica - Sapienza
2018- now	Member of the collaboration board of the PTOLEMY collaboration and PI of the INFN Roma group
2018- now	Member of the Physics Beyond collider WG’s (Technology, Fixed target and BSM physics)
2018-2020	Coordinator of Light Dark matter WG <i>PTOLEMY</i> collaboration
2018-2020	Member of Job Placement committee of Dipartimento Fisica - Sapienza
2019- now	Member of the Advisory board for new ERC grantees – Dipartimento Fisica Sapienza
2018-2021	Member of the Steering comm. of the <i>Amaldi Research Center</i> at Dip. di Fisica Sapienza
2018- now	Member of the JUAS (Joint Universities Accelerator School) Advisory Board
2016- now	Member of the board of teachers of the Ph.D. school in Accelerator Physics at Sapienza.
2017- now	Member of various selection committees for RTD-A, RTD-B, INFN researchers
2010-2018	INFN member in the Executive Board of the UA9 collaboration
2010-2018	Member of the Editorial Board of the UA9 collaboration
2010-2013	MEG Physics Coordinator
2008- now	MEG and MEG-II Shift Coordinator
2012-2014	INFN Premio Resmini and Premio Conversi committee member
2009-2011	INFN Researchers representative in Consiglio di Sezione at INFN Roma
2007-2009	Convenor for Heavy Flavour Averaging WG (<i>HFAG</i>) for Particle Data Group
2004-2008	Chairs of several Babar internal review committees
2004-2006	Chairman of Italian BaBar Physics Committee
2005- now	Physics Review Letters, Physics Review D, Physics Letters B and IEEE Transactions on Nuclear Science, JHEP referee
2000-2004	Charmless B decays and Charmless Twobody B decay analysis WG convenor
2000-2002	BaBar Tracking Efficiency WG convenor
2003	BaBar IFR Operation manager

Part VI - Funding Information

Principal Investigator: **PI**; Member of the management board: **Co-PI**; Component: **I**

Year	Title	Program	Grant value[keuro]
2023-2025	Spoke 8 Tech transfer	PE4 NQSTI (PNRR)	~90
2023- 2025	<i>ShareScience</i> con la scuola e con l’industria/ PI	Progetto Terza Missione Sapienza (con Facoltà di SMFN)	11
2022- 2024	CNT for composite materials/ Co-PI	Progetto di Ateneo Sapienza	50

2022-2025	Andromeda/ Co-PI	MUR PRIN 2020	217
2022-2024	Ptolemy/ Co-PI	INFN CNS5	~200
2021-2025	aMUSE/ Co-PI	H2020-MSCA-RISE-2020	150
2018-2022	Amaldi Research Center/ PI (since 2021)	MUR	10000
2021-2026	Lascalea/ Co-PI	EU Erasmus	4500
2021-2022	NanoBio/ PI	Progetto di Ateneo Sapienza	13
2017- now	Phys Lab for master students/ PI	Finanziamento ordinario Sapienza	20/year
2019-2020	NanoUV/ Co-PI	EU Attract	100
2019-2021	Ptolemy/ Co-Pi	INFN CNS2	200
2014-2019	CRYSBREAM/ PI	EU ERC Consolidator Grant	2000
2017-2019	CNT for Dark Matter/ PI	Grande Progetto di Ateneo Sapienza	53
2016-2017	Dcant/ PI	INFN CNS5	55
2010-2014	Crystal channeling for future accelerators/ PI	FIRB -MIUR	303
2009-2019	INFN UA9/ PI	INFN CNS1	1100
2010-2013	EuCard WP8/ I	EU FP7	40
2008-2009	Super B project and LFV/ I	Royal Society	8
2006-2008	INFN Roma H8RD22/ PI	INFN Special projects	60
2007-2008	Crystal channeling/ I	PRIN/MIUR	30

Part VII – Research Activities

My research activity started with the study of *CP* violation in the *B* meson weak decays and in the search for indirect signs of physics beyond the Standard Model in flavour physics (**BaBar** collaboration -about **500 people** - from 1997 to 2012).

I was the main author of the analysis that lead to the discovery of direct *CP* violation in *B* decays in 2004.

Extending the realm of search for New Physics phenomena in particle physics has been the goal of my more recent scientific activity. I have been a member of the **MEG** international collaboration – about **50 people** - since 2007, striving for observing charged lepton flavor violation (**cLFV**) with the ultra-rare decay μ into $e\gamma$ at the Paul Scherrer Institut (Switzerland). During the 2010-2013 period I was the Physics coordinator of MEG, leading the effort of data-analysis and of the publication of the highly cited MEG results setting various world record limits on the existence of cLFV.

Since no evidence of cLFV has been found and given the vast interest of the community, I joined the **MEG-II** collaboration for the upgrade of the MEG detector. I have now a primary role in designing novel detectors for future and even more ambitious project for cLFV searches (**aMUSE** project). One of my former student F.Renga (now INFN permanent researcher) is now leading this effort.

I have recently proposed to MEG-II the experimental study of the hypothetical **X(17)** particle proposed to explain an exotic phenomenon in p Li and p ^3H nuclear reaction.

Very recently I joined the **muonEDM** collaboration.

At the same time, I started to be interested in the developments of **new tools** for experimental particle physics, in particular experiments in the physics of the particle accelerators.

During the last decade the High Luminosity LHC project (HL-LHC) at CERN was approved with the aim of adding higher sensitivity to the search for new physics phenomena at the high energy frontier. During the 2009 – 2019 period I was the leader of the INFN team (**15 people**) in the **UA9** international collaboration (about 50 people in total) – aiming at demonstrating the bent crystal collimation at the CERN SPS accelerator in view of extending it to the HL-LHC. A successful demonstration of it appeared in several publications.

During those years I developed the idea of using special bent crystals for the **extraction** of the 7 TeV **LHC proton (or ion) beam** to measure cross sections relevant for the study of **Ultra-High energy cosmic rays**. This was financed during the 2014-2019 period with the **ERC Consolidator Grant CRYSBREAM** (<http://crysbeam.roma1.infn.it/>). I lead a team of **about 10 people** that primarily focused on the development and characterization of long bent crystals for both the SPS and the LHC beam extractions and on detectors for the extracted beam monitoring, now installed at the LHC and SPS machines at CERN.

A landmark success of this research was obtained in 2016 in the context of the UA9 collaboration with the observation of crystal channeling at the LHC.

The use of bent crystal for high energy beam extraction is now an affirmed experimental tool at CERN and in other laboratories, as witnessed by the Physics Beyond Collider program (<https://indico.cern.ch/event/827066/timetable/>). CRYSBREAM-type bent crystals are being considered for various fixed target experiments in the next decade and for heavy baryon magnetic and electric dipole moments measurements at the SPS and the LHC. In particular, I was involved as advisor of the ERC CoG SELDOM proposing to study of EDM of heavy baryons at the LHC with bent crystals - which I initially produced with CRYSBREAM.

More generally, important advances in the physics of charged particle coherent interaction were obtained thanks to CRYSBREAM and UA9. Crystals are even considered as targets for the muon production in the LEMMA scheme for the futuristic muon collider – a project I have recently given a contribution in studying the on-threshold muon production and the thermo-mechanical stability of targets for muon production from positrons.

I am now a member of the international advisory board of the *Channeling* conference and L.Bandiera and A.Mazzolari, former post-docs with CRYSBREAM, are now permanent INFN researchers, leading various projects advancing in the technological transfer of the use crystal as collimators and in the study of crystals as radiation sources.

In the last years I move forward to port this **coherent interactions concept** to a different realm, proposing innovative detectors of the elusive dark matter particles. I then proposed **light dark matter** detection scheme based on **aligned carbon nanotubes (CNT)**. First pilot projects were financed and some early results obtained on this. I am now leading a group including condensed matter and particle physics experts that studies carbon nanostructure for a variety of applications, including the development of graphene-based target to host tritium atoms for the Cosmic Neutrino Background detection (CNB). I became part of the **PTOLEMY collaboration** that aims at developing a full detector for neutrino mass and CNB searches.

While aligned Carbon nanotubes are being studied as a promising tool for light DM directional detection, I am also involved in the development of a gas TPC prototype for DM directional detection – the CYGNO and INITIUM projects, also financed by the an ERC CoG with E.Baracchini as PI, one of my early students.

I currently co-lead a dedicated laboratory (TITAN lab) for the development of new detectors where an advanced facility for carbon nanostructure synthesis is operational. We study several applications of CNT beyond the particle physics as enhanced sensitivity biosensors, anti-microbial surfaces, novel composite materials, additive manufacturing with CNT, sensors for UV light for environmental applications, hydrogen storage.

One key development is the study of **tritium** storage on carbon nanostructure for the Ptolemy demonstrator from theoretical and experimental point of view.

The development of new detectors for extra-terrestrial particles is conducted also in collaboration with the Amaldi Research Center of the department of Physics - an interdisciplinary Center for Gravitational Physics and Astrophysics – that I have been leading since 2021.

Dark Matter detection		
2019- now	Light DM, carbon nanotube for particle detectors	Development of a detector prototypes based on CNT to detect UV light and light DM (ATTRACT project NanoUV and PRIN 2020 Andromeda)
2018- now	Light Dark Matter, Cosmological neutrinos, carbon nanotubes, graphene	PTOLEMY project, develop of a demonstrator for cosmological relic neutrinos detection based on a tritium-doped graphene target. New electromagnetic field filter concept, graphene studies, hydrogen-loading
2017- now	Directional Dark Matter search, Time Projection Chamber	CYGNO project, develop a demonstrator for directional dark matter searches with optically readout gas TPC using GEM amplification
2016- now	Directional Dark Matter search, Time Projection Chamber	member of the CYGNUS proto-collaboration for the development of a directional dark matter searches with a 1000 m ³ gas TPC
2017	Sub-GeV DM detection, CNT	First proposal to use CNT as target for MeV mass dark matter particles
2016-2017	DM detection	White papers on future research on Dark matter
2016-2018	Gas TPC, GEM, optical readout	CYGNUS–RD project – operation of an optically readout of GEM for a He-based TPC gas detector for low mass and directional dark matter searches
2016-2017	Ion channeling, CNT	DCaNT project - demonstrator of carbon ion channeling in carbon nanotubes with a TPC-GEM. Development of a low pressure negative ion TPC prototype. First tests of a CNT target with a ultrarelativistic beam
2016	Axion detection	STAX Project – proposal of axion-like particle detection in the micro-wave range. Sensors for sub-THz single photon detection, testing of SQUID device for a TES sensor readout
2015	Directional dark matter detection	Proposal of a new scheme of detection of galactic dark matter WIMP direction exploiting coherent interactions in carbon nanotubes

Lepton Flavour violation		
2022- now	μ EDM search	Member of the muonEDM collaboration

2007- now	$\mu \rightarrow e\gamma$ search	Member of the MEG and MEG-II collaboration
2017- now	$\mu \rightarrow e\gamma$ search	Future $\mu \rightarrow e\gamma$ experiments with higher intensity beams
2012-2017	$\mu \rightarrow e\gamma$ search	MEG upgrade (DCH upgrade project, active target project)
2016-2017		Study of LFV at FCC-hh collider
2009-2012	$\mu \rightarrow e\gamma$ search	Main author of the MEG data analysis (Physics coordinator, about 20 people working group)
2013		Proposal to use IRIDE machine for LFV measurements
2008-2009	$\mu \rightarrow e\gamma$ search	MEG detector commissioning (Timing counter calibration)

Accelerator Physics		
2022-now	Muon Collider	Member of the Muon collider international collaboration (target studies) and RD_MUCOLL INFN project
2017-2021	Muon collider	member of the LEMMA collaboration, muon detection and production on threshold, crystalline target studies, thermomechanical studies
2018	Crystal beam extraction	Demonstration of various crystal aided schemes of SPS beam extraction
2018	SPS beam dump experiment	SPS extracted beam time structure study for future beam dump experiments
2017-2018	LHC beam extraction	Large bending crystals for LHC 7 TeV beam extraction productions and tests.
2017	LHC collimation	Demonstration of LHC ion and proton beam crystal collimation (UA9 collaboration)
2017	Beam loss monitor	Development of a pixelated diamond detector (segmented beam loss monitor)
2016-2017	Channeling	Study of elastic and inelastic hadronic interaction in channeling condition
2016-2017	Crystal beam extraction	Studies of focusing crystal for a double crystal beam extraction scheme
2016	Crystal beam extraction	First study of crystal-aided slow extraction at SPS
2015	Channeling, LHC	Observation of channeling of 6.5 TeV protons at the LHC in bent crystals
2011	Crystal collimation, LHC	Proposal of extension of crystal collimation tests to the LHC
2010-2013	Crystal collimation, coherent interaction in crystals	Demonstration of crystal channeling collimation feasibility in SPS , innovative crystal production and tests
2006-2019	Crystal collimation, coherent interaction in crystals	Member of H8-RD22 and UA9 collaborations: crystal channeling and related phenomena at CERN-SPS; observation of volume reflection with 400 GeV/c protons nuclear dechanneling, PXR production and other phenomena ; development of new technique of collimation for future colliders.

Detector R&D		
2020-now	Sensors, materials	novel <i>NanoBio</i> project – development of electrochemical sensors aided with VA-CNT, antimicrobial CNT-treated surface. New composite materials (CNT-added copper, CNT-enhanced basalt fibers)
2018-2022	Gas detectors	Member of the RD-51 collaboration
2017-2018	Optically readout gas TPC	CYGNUS-RD : operation of a 10 liter gas TPC with a GEM optical readout as prototype for neutron and dark matter detections
2015-2018	Cherenkov detectors, Beam loss monitor	Construction, installation, and operation of Cherenkov detectors in the SPS to monitor extracted beams.
2014-now	LHC collimation, bent crystals	Installation into the LHC of bent crystals for crystal collimation tests
2012-2015	Particles targets	MEG upgrade, development of an Active Target based on thin scintillating fibers readout by SiPM
2012-2013	Beam monitors	Development of fast hodoscopes for circulating beams (SPS)
2003-2004	Gas detectors	Limited-Streamer tubes (LST) production for IFR-Barrel upgrade (BaBar experiment)
2003	Gas detectors	RPC ageing studies
2002	Gas detectors	Installation and commissioning of RPC (BaBar exp)
2001-2002	Gas detectors	RPC production, quality assurance (BaBar exp)

Heavy quark physics		
2017- now	Electric dipole moments, baryons	Proposal to measure MDM and EDM of heavy quark baryons with bent crystal at the LHC (collaboration with EU ERC CoG project <i>SELDOM</i>)
2011	Charm quark	Review on charm mixing
2006-2009	Charm quark	D⁰-mixing analyses , main author at BaBar of time-dependent Dalitz analysis of $D^0 \rightarrow K\pi\pi^0$
2005-2007	Charm quark, scalar mesons	D^0 Dalitz analyses at BaBar, study of scalar mesons in $D^0 \rightarrow K_S \pi^+ \pi^-$ decays
2007		Conceptual design report for a Super Flavour factory
2004-2006	B mesons	Analysis searching for the very rare leptonic decays $B^0 \rightarrow l^+ l'^-$
2004-2006	CKM matrix	Analysis to extract the angle γ of CKM matrix in $B^- \rightarrow D^{(*)0} K^-$ with a Dalitz analysis at BaBar
2005-2007	New physics in flavor physics	Analyses measuring time-dependent CP violation in $b \rightarrow s$ and $b \rightarrow d$ transitions , searching for New Physics effect with Dalitz analyses, branching fractions and CP violation measurements at BaBar
2004	Direct CP violation	Observation of direct CP violation in $B^0 \rightarrow K^+ \pi^-$ decays at BaBar see also press release http://www.infn.it/news/news.php?id=332 .
2000-2004	CKM matrix	BaBar Charmless B decays analysis working group coordinator . Charge of this group is the measurement of α and γ angles of the CKM unitarity triangle with branching ratio and CP violation

		measurements. I lead a group of about 15 physicists working on 7 different analyses.
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Part VII.B – Outreach and technological transfer Activities

I am active in various outreach and technological transfer projects with Sapienza and INFN.

Some of the crystal and CNT based materials I have been studying are now considered for technology transfer or are patented. With my group and the INFN Hammer group we developed an innovative copper powder (*Dragon Copper*) for 3D laser printing for additive manufacturing now **patented** and in the process of being produced by a company.

I am currently leading the **ShareScience** committee of the Science Faculty of Sapienza (web.uniroma1.it/fac_smfn/share-science) which was created to disseminate academic research results to SMEs and large industries of the region of Lazio and improve the connections of the Science Faculty to secondary high school.

In the context of the **PNRR PE4 NQSTI** (quantum science and tech.) I coordinate the Joint Laboratories WG of the Spoke 8 (devoted to technological transfer). I am also the scientific contact for Sapienza in Spoke 8 of NQSTI.

In the recent years I was one of the early funding members of the **Lab2go** project that was proposed to empower the laboratory activity in secondary schools - first in Roma and now in Italy.

Year	Activity
2023	Industrial Collaboration on additive manufacturing with <i>Add-To-Shape srl</i> for Dragon Copper production on industrial scale (with Sapienz and INFN)
2023	Patent <i>Dragon Copper</i> : international extension (PCT/IB2023/055084).
2022	Patent n. 102022000010511 <i>Metodo di produzione di una miscela di rame puro e nanotubi di carbonio e di manifattura additiva di un materiale nanocomposito a matrice metallica di rame puro rinforzato con nanotubi di carbonio per mezzo di detta miscela (Dragon Copper)</i>
2021- now	<i>Co-Chair</i> of the Share-Science committee
2020-2021	Member of the Share-Science committee
2018-2019	Organization of the Gravitational Wave day at Dip.Fisica Sapienza
2017-2018	Serial production of bent crystal for the LHC crystal collimation project- technological transfer of INFN towards CERN
2017	Collaboration with <i>Asimmetrie</i> (INFN outreach journal)
2017-2021	Tutor of the phase 2 of the Lab2go
2016-2017	Tutor of the first edition of the Lab2go project

Part VII.B – Conferences and workshops organization

2021	<i>Chair</i> of the organizing comm. for Scienze Aperte workshop (Roma)
2021	Organizer of <i>Shedding light on XI7</i> Workshop (Roma)
2019	<i>Chair</i> of organizing committee of CYGNUS 2019 (Roma)
2018- now	Committee <i>member</i> for colloquia organization at Dip.Fisica Sapienza
2018- now	<i>Member</i> of the Scientific Committee of the INFN School of Statistics
2017- now	<i>Member</i> of Channeling conference International Advisory Board

2010-2019	INFN Roma experimental seminars organizer
2015	Convener IFAE 2015 (Roma Tor Vergata)
2010-2016	International program committee member of four editions of <i>Channeling</i> conference
2008	CKM workshop organizing committee
2005-2008	CKM workshops WG convener in various edition

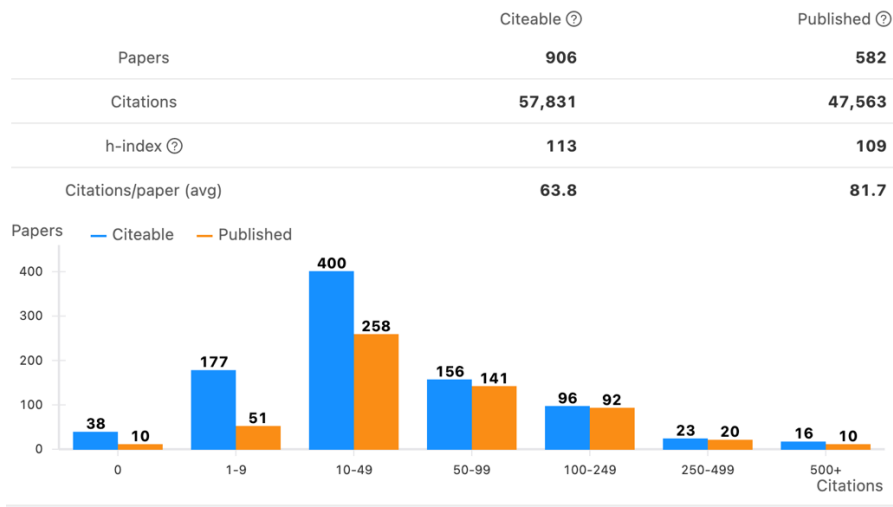
Part VIII – Summary of Scientific Achievements

	Last 15 years	Total
Number of paper (ISI)	338	640
Total Citations (ISI)	11470	25502
Average Citations per Product (ISI)	33.93	39.97
Hirsch (H) index (ISI)	55	87

From <https://inspirehep.net>

Citation Summary

Exclude self-citations



I was invited to give **more than 30 talks** in international conferences, and I gave tens of seminars in universities and research centers.

Part IX– Selected Publications

1. J. Adam et al. [MEG Collaboration],
“New constraint on the existence of the μ^+ to $e^+\gamma$ decay, Phys. Rev. Lett. 110 (2013) 201801
694 Cit, IF 7.73
2. A. M. Baldini et al. [MEG Collaboration],
“Search for the lepton flavour violating decay μ^+ to $e^+\gamma$ with the full dataset of the MEG experiment,” Eur.

- Phys. J. C 76, no. 8, 434 (2016)
956 Cit, IF 5.30
3. A. M. Baldini et al., [MEG Collaboration],
“The design of the MEG-II experiment”, Eur. Phys. J. C 78, no. 5, 380 (2018)
294 Cit, IF 5.25
 4. L. M. Capparelli, G. Cavoto, D. Mazzilli and A. D. Polosa, “Directional Dark Matter Searches with Carbon Nanotubes,” Phys. Dark Univ. 9-10, 24 (2015)
30 Cit, IF 5.22
 5. W. Scandale et al., [UA9 Collaboration],
“Observation of channeling for 6500 GeV/c protons in the crystal assisted collimation setup for LHC,” Phys. Lett. B 758, 129 (2016).
111 Cit, IF 4.81
 6. L. Capparelli, G. Cavoto, J. Ferretti, F. Giazotto, A. D. Polosa and P. Spagnolo
“Axion-like particle searches with sub-THz photons,”
Phys. Dark Univ. 12, 37 (2016)
42 Cit, IF 5.43
 7. G. Cavoto, E. N. M. Cirillo, F. Cocina, J. Ferretti and A. D. Polosa, “WIMP detection and slow ion dynamics in carbon nanotube arrays,” Eur. Phys. J. C 76, no. 6, 349 (2016)
33 Cit, IF 5.30
 8. E. Bagli, L. Bandiera, G. Cavoto, V. Guidi, L. Henry, D. Marangotto, F. Martinez Vidal, A. Mazzolari, A. Merli, N. Neri
“Electromagnetic dipole moments of charged baryons with bent crystals at the LHC,”
Eur. Phys. J. C 77, no. 12, 828 (2017)
49 Cit, IF 5.17
 9. G. Cavoto, A. Papa, F. Renga, E. Ripiccini and C. Voena,
“The quest for μ to $e\gamma$ and its experimental limiting factors at future high intensity muon beams,” Eur. Phys. J. C 78, no. 1, 37 (2018)
33 Cit, IF 5.17
 10. G. Cavoto, F. Luchetta and A. D. Polosa,
“Sub-GeV Dark Matter Detection with Electron Recoils in Carbon Nanotubes,” Phys. Lett. B 776, 338 (2018)
75 Cit, IF 4.25
 11. M.G.Betti et al [PTOLEMY Collaboration]
“A design for an electromagnetic filter for precision energy measurements at the tritium endpoint”
Prog.Part.Nucl.Phys. 106 (2019), 120-131
18 Cit, IF 13.4
 12. M. G. Betti et al. [PTOLEMY Collaboration],
“Neutrino physics with the PTOLEMY project: active neutrino properties and the light sterile case,” JCAP 07 (2019), 047
139 Cit, IF 3.16
 13. C. Hadjidakis, , et al.
“A fixed-target programme at the LHC: Physics case and projected performances for heavy-ion, hadron, spin and astroparticle studies,”
Phys. Rept. 911 (2021), 1-83
97 Cit, IF 25.6
 14. E. Baracchini et al. [CYGNO collaboration]
“Identification of low energy nuclear recoils in a gas time projection chamber with optical readout”
Measur.Sci.Tech. 32 (2021) 2, 025902
17 Cit, IF 2.4

15. Towards free-standing graphane: atomic hydrogen and deuterium bonding to nano-porous graphene
Abdelnabi, Mahmoud Mohamed Saad, et al.
Nanotechnology (2021) 32,3
16 Cit., IF 4.0
16. A. Apponi et al. [PTOLEMY Collaboration]
“Heisenberg’s uncertainty principle in the PTOLEMY project: a theory update”
Phys.Rev.D 106 (2022) 5, 053002
17 Cit, IF 5.4

Citations from da INSPIRE and Google Scholar 21 July 2023, Impact factor (IF) from JCR and Academic Accelerator.

The lists of all my publications and of my talks at conferences are attached here below.

Roma, 20 luglio 2023

In fede,^v Gianluca Cavoto

Att.A: List of all the talks at conferences

Mar 2023 Invited talk on “The role of neutrons sources in dark matter measurements” at the FNG 30 years anniversary in Frascati

Mar 2023 Invited talk on Ptolemy at the 23rd conference on radionuclide metrology and its application (ICRM 23) in Magurele (Romania)

Nov 2022 Invited talk on Ptolemy at the International Conference on Quantum Technology for High-Energy Physics at CERN

Sep 2022, invited talk on “Searches with the MEG-II Experiment” at BLV 2022 in Brussels

July 2022 invited talk on “Innovative avenues for dark matter and neutrinos detection” at Symposium on Experimental Particle Physics at MPP in Munich

July 2022 talk on “Searching for Light Dark Matter with Aligned Carbon Nanotubes: the ANDROMEa Project” at the 41st International Conference on High Energy physics ICHEP 2022 in Bologna

Jul 2021, EPS 2021, Prague, talk on “The Cygno Experiment”

Sep 2019, TAUP 2019, Toyama (Japan), talk on “Carbon Nanotube as anisotropic target for dark matter”.

Feb 2019, VCI 2019, Vienna Conference on Instrumentation, talk on "Micro Pattern Gas Detector Optical Readout for Directional Dark Matter Searches"

Jun 2018, GEMMA, Gravitational waves, Electromagnetic and Dark Matter Physics Workshop, Lecce, invited talk on "Novel technologies for direct dark matter detection"

May 2018, Searching for Physics Beyond the Standard Models Using Charged Leptons Workshop at COFI, Puerto Rico (USA) invited talk on $\mu \rightarrow e\gamma$ and $\mu \rightarrow 3e$ searches.

Jun 2017 CYGNUS 2017 workshop on directional dark matter detection Xichang, Sichuan (China), invited talk on Experimental tests of negative ion TPC

Sep 2016, Nano Innovation 2016, Roma 20-23 Sep 2016 invited talk on Carbon nanotubes as a target for directional WIMP detection

Jul 2016, IDM 16 Sheffield (UK) talk on Carbon nanotubes as a target for directional WIMP detection

Jun 2016, FPCP 16 Los Angeles (USA), invited talk on The $\mu \rightarrow e\gamma$ final search with MEG and MEG-II status

Jun 2015, CYGNUS 2015 workshop on directional dark matter detection Los Angeles (USA), invited talk on Experimental tests of ion channelings in carbon nanotubes

Jun 2015, LDMA2015 International Workshop, Camogli (Italy), invited talk on Carbon nanotubes potentialities for directional searches of dark matter particles with $M < 10$ GeV

Oct 2015, Small Angle Spectrometer at LHC workshop, talk on Channeling for high- xF

May 2014, FPCP 14 Marseille (France), invited talk on Searching for $\mu \rightarrow e\gamma$ with MEG and MEG-II ;

Apr 2013, International Workshop on Baryon and Lepton Number Violation From the Cosmos to the LHC, April 8-11, 2013, MPIK Heidelberg, Germany” invited talk Searching for the mu into e gamma decay with the present and future MEG experiment”

Jun 2012, ATHOS 2012, Jun 2012 Camogli International Workshop on new partial wave analysis tools for next generation hadron spectroscopy experiments, invited talk on "Analysis tools: the heavy quark sector",

Mar 2012, 26-me Rencontres de Physique de La Valle d'Aoste, 26-3 Mar 2012, La Thuile, Italy invited talk Lepton Flavour Violation with MEG,

Apr 2011, Incontri di Fisica delle Alte Energie, Perugia Apr 2011, talk "Crystal collimation of hadron beam at CERN, the UA9 experiment"

Sep 2010, Neutrino Oscillation Workshop (NOW 2010), 4 -11 Sep 2010, Conca Specchiulla (Otranto) Italy, invited talk "Recent MEG results"

Sep 2010, Societa' Italiana di Fisica, Congresso Nazionale 2010, invited talk on "Bent crystals and accelerator collimation"

Sep 2009, Societa' Italiana di Fisica, Congresso Nazionale 2009 invited talk on "First results of MEG experiment"

Feb 2009, PSI BVR meeting invited talk on "Timing Counter calibration of MEG experiment"

May 2007, FPCP 07 Bled (Slovenia), invited talk on "Charm Dalitz analyzes"

Feb 2007, Incontri italiani di Fisica del B, invited talk on "Rare Hadronic Charmless B decays at BaBar"

Dec 2006, CKM Workshop 2006 - Nagoya (Japan), WG5 summary talk;

Dec 2006, CKM Workshop 2006 - Nagoya (Japan), invited talk on " $B \rightarrow \rho\pi$ decays";

Oct 2006, CERN, Flavour in the era of LHC workshop, invited talk on "CKM angles from Babar";

Sep 2006, Societa' Italiana di Fisica, Congresso Nazionale 2006, Torino (Italy), invited talk "Measurement of sides and angles of the CKM Unitarity triangle" ;

Nov 2005, CERN, Flavour in the era of LHC workshop, invited talk "Measurements of γ and V_{ub} "

Aug 2004, 32nd International Conference on High Energy Physics, ICHEP04, Beijing (China), invited talk "Measurement of γ and $\sin 2\beta + \gamma$ in BaBar"

Apr 2004, XVI Incontro Fisica della Alte Energie, Parma (Italy), invited talk "Measurements of $\sin 2\alpha$ at B-factories"

Oct 2003, VII Workshop on Resistive Plate Chambers and related detectors, invited talk "BaBar Forward EndCap RPCs"

Jan 2003, Aspen Winter 2003 Conference on Particle Physics At the Frontiers of Particle Physics, invited talk "Rare B Decays and direct CP violation at BaBar";

Apr 2002, XIV Incontro Fisica della Alte Energie, Parma (Italy), invited talk “Measurements of Branching fractions and CP-violating asymmetries in $B^0 \rightarrow \pi^+\pi^-, K^+\pi^-, K^+K^-$ decays”;

Sep 2001, Società Italiana di Fisica, Congresso Nazionale 2001, Milano-Bicocca (Italy), invited talk “B meson decays to final states with various charm multiplicity in BaBar”

Mar 2001, XXXVI QCD Rencontres de Moriond, Les Arcs (France), invited talk “Charmless Hadronic B decays at BaBar”

Sep 1999, Società Italiana di Fisica, Congresso Nazionale 1999, Pavia (Italy), talk on “First results of BaBar”

Mar 1997, BaBar Physics Workshop, Princeton (USA), talk on “Towards a isospin analysis in two pions B^0 decays”.

Att. B: List of all the publications (journal, preprints, proceedings, books)

G.Cavoto, Translation to Italian of L.Randall Warped Passages, Il Saggiatore (2006).

Plasma-etched vertically aligned CNTs with enhanced antibacterial power
E.Schifano, G.Cavoto, F.Pandolfi, G.Pettinari, A.Apboni, A.Ruocco, D.Uccelletti, I.Rago

DOI: 10.3390/nano13061081
Nanomaterials,13:6 (2023)

The CYGNO/INITIUM experiment

F.D. Amaro et al.

DOI: 10.21468/SciPostPhysProc.12.019

Published in: SciPost Phys.Proc. 12 (2023), 019

The CYGNO experiment, a directional detector for direct Dark Matter searches

F.D.Amaro et al.

DOI: 10.1016/j.nima.2023.168325

Published in: Nucl.Instrum.Meth.A 1054 (2023), 168325,

Shedding light on X17: community report

Daniele S.M. Alves et al.

DOI: 10.1140/epjc/s10052-023-11271-x

Published in: Eur.Phys.J.C 83 (2023) 3, 230

LIME — A gas TPC prototype for directional Dark Matter search for the CYGNO experiment

F.D.Amaro et al.

DOI: 10.1016/j.nima.2023.168207

Published in: Nucl.Instrum.Meth.A 1051 (2023), 168207

The dark-PMT: A novel directional light dark matter detector based on vertically-aligned carbon nanotubes

F. Pandolfi, G.Cavoto et al.

DOI: 10.1016/j.nima.2023.168116

Published in: Nucl.Instrum.Meth.A 1050 (2023), 168116

The Cylindrical Drift Chamber of the MEG II experiment

M. Chiappini et al.

DOI: 10.1016/j.nima.2022.167740

Published in: Nucl.Instrum.Meth.A 1047 (2023), 167740

Astroparticle Experiments to Improve the Biological Risk Assessment of Exposure to Ionizing Radiation in the Exploratory Space Missions: The research topic initiative

A. Bartoloni, N. Ding, G. Cavoto, C. Consolandi, L. Strigari

DOI: 10.1016/j.nima.2022.167738

Published in: Nucl.Instrum.Meth.A 1047 (2023), 167738

50 litres TPC with sCMOS-based optical readout for the CYGNO project

G. Mazzitelli (Frascati), et al.

DOI: 10.1016/j.nima.2022.167584 x

Published in: Nucl.Instrum.Meth.A 1045 (2023), 167584

Searching for Light Dark Matter with Aligned Carbon Nanotubes: The ANDROMeDa Project
Federico Virzi et al.

DOI: 10.1051/epjconf/202328006001

Published in: EPJ Web Conf. 280 (2023), 06001

Astroparticle experiments to improve the biological risk assessment of exposure to ionizing radiation in the exploratory space missions: a research topic initiative

Alessandro Bartoloni, Cristina Consolandi, Gianluca Cavoto, Nan Ding, Lidia Strigari

DOI: 10.22323/1.414.0964

Published in: PoS ICHEP2022, 964

The CYGNO experiment

F.D. Amaro et al.

DOI: 10.22323/1.414.1036

Published in: PoS ICHEP2022, 1036,

Relativistic corrections to polarized-tritium β decay

Gianluca Cavoto, Angelo Esposito, Guglielmo Papiri, Antonio Davide Polosa

DOI: 10.1103/PhysRevC.107.064603 (publication)

Published in: Phys.Rev.C 107 (2023) 6, 064603

LIME: a gaseous TPC with optical readout

F.D. Amaro et al.

DOI: 10.22323/1.414.0334

Published in: PoS ICHEP2022, 334,

Analysis and study of the problems on the wires used in the MEG CDCH and the construction of the new drift chamber

G. Chiarello, G. Cavoto et al.

DOI: 10.1016/j.nima.2022.167735

Published in: Nucl.Instrum.Meth.A 1046 (2023), 167735

Commissioning and preliminary performance of the MEG II drift chamber

M. Chiappini (INFN, Pisa) et al.

DOI: 10.1016/j.nima.2022.167314

Published in: Nucl.Instrum.Meth.A 1041 (2022), 167314

Exploiting INFN-Cloud to implement a Cloud solution to support the CYGNO computing model

F.D. Amaro et al.

DOI: 10.22323/1.415.0021

Published in: PoS ISGC2022 (2022), 021

The measuring systems of the wire tension for the MEG II Drift Chamber by means of the resonant frequency technique

A.M. Baldini et al.

DOI: 10.1016/j.nima.2022.167534 (publication)

Published in: Nucl.Instrum.Meth.A 1045 (2023), 167534

Highly aligned growth of carbon nanotube forests with in-situ catalyst generation. A route to multifunctional basalt fibres.

F.Sarasini, J. Tirillò, M. Lilli, M.P. Bracciale, P.E. Vullum, F. Berto, G. De Bellis, A.Tamburrano, G. Cavoto, F. Pandolfi, I. Rago.

DOI: 10.1016/j.compositesb.2022.110136

Composite Part B, Engineering 243 (2022) 1-13.

Feasibility of crystal-assisted collimation in the CERN accelerator complex

W. Scandale, G.Cavoto et al. [UA9 Collaboration]

DOI: 10.1142/S0217751X22300046

Published in: Int.J.Mod.Phys.A 37 (2022) 13, 2230004

Heisenberg's uncertainty principle in the PTOLEMY project: A theory update

A. Apponi et al. [PTOLEMY Collaboration]

DOI: 10.1103/PhysRevD.106.053002 (publication)

Published in: Phys.Rev.D 106 (2022) 5, 053002

Crystal-based pair production for a lepton collider positron source

L. Bandiera, G. Cavoto et al.

DOI: 10.1140/epjc/s10052-022-10666-6

Published in: Eur.Phys.J.C 82 (2022) 8, 699

The CYGNO Experiment

F.D.Amaro et al.

DOI: 10.3390/instruments6010006

Published in: Instruments 6 (2022) 1, 6

Theoretical Modeling for the Thermal Stability of Solid Targets in a Positron-Driven Muon Collider

Cesarini, Gianmario, G.Cavoto, et al.

DOI: 10.1007/s10765-021-02913-x

Published in: Int. J. of Thermophysics (2021) 42, 12

Deuterium Adsorption on Free-Standing Graphene

Abdelnabi, Mahmoud Mohamed Saad, G.Cavoto et al.

DOI: 10.3390/nano11010130

Published in: Nanomaterials (2021) 11, 1

Towards free-standing graphane: atomic hydrogen and deuterium bonding to nano-porous graphene

Abdelnabi, Mahmoud Mohamed Saad, G.Cavoto et al.

DOI: 10.1088/1361-6528/abbe56

Published in: Nanotechnology (2021) 32,3

Multiple scattering of channeled and non-channeled positively charged particles in bent monocrystalline silicon

W. Scandale, G.Cavoto, et al.

DOI: 10.1140/epjp/s13360-022-03034-6

Published in: Eur.Phys.J.Plus 137 (2022) 7, 811

Absolute efficiency of a two-stage microchannel plate for electrons in the 30–900 eV energy range

A Apponi, F Pandolfi, I Rago, G Cavoto, C Mariani and A Ruocco,

DOI: 10.1088/1361-6501/ac3d07

Published in: 2022 Meas. Sci. Technol. 33 025102

Detailed analysis of chemical corrosion of ultra-thin wires used in drift chamber detectors

A.M. Baldini, G. Cavoto, F. Cei, M. Chiappini, G. Chiarello et al.

e-Print: 2108.13948 [physics.ins-det]

DOI: 10.1088/1748-0221/16/12/T12003

Published in: JINST 16 (2021) 12, T12003

Implementation and optimization of the PTOLEMY transverse drift electromagnetic filter

A. Apponi, Calle et al. [PTOLEMY Collaboration]

DOI: 10.1088/1748-0221/17/05/P05021

Published in: JINST 17 (2022) 05, P05021

The Search for $\mu^+ \rightarrow e+\gamma$ with 10–14 Sensitivity: The Upgrade of the MEG Experiment

MEG II Collaboration • Alessandro M. Baldini (INFN, Pisa) et al.

e-Print: 2107.10767 [hep-ex]

DOI: 10.3390/sym13091591

Published in: Symmetry 13 (2021) 9, 1591

Directional Dark Matter Searches with CYGNO

Fernando Domingues Amaro (Coimbra U.), Elisabetta Baracchini (GSSI, Aquila and Gran Sasso),

Luigi Benussi (Frascati), Stefano Bianco (Frascati), Cesidio Capoccia (Frascati) et al.

DOI: 10.3390/particles4030029

Published in: Particles 4 (2021) 3, 343-353

Muon detection in electron-positron annihilation for muon collider studies

N. Amapane (Turin U. and INFN, Turin), M. Antonelli (Frascati), F. Anulli (INFN, Rome3), G.

Ballerini (Insubria U., Como and INFN, Milan Bicocca), L. Bandiera (INFN, Ferrara) et al.

DOI: 10.1016/j.nima.2021.166129

Published in: Nucl.Instrum.Meth.A 1024 (2022), 166129

Heavy-flavour studies with a high-luminosity fixed-target experiment at the LHC

Barbara Trzeciak (Prague, Tech. U.), S.J. Brodsky (SLAC), G. Cavoto (INFN, Rome and Rome

U.), C. Da Silva (Los Alamos), M.G. Echevarria (UCM, Madrid, Dept. Phys.) et al.

e-Print: 2104.10926 [nucl-ex]

DOI: 10.22323/1.387.0190

Published in: PoS HardProbes2020 (2021), 190

Search for a muon EDM using the frozen-spin technique

A. Adelman (ETH, Zurich (main) and PSI, Villigen), M. Backhaus (ETH, Zurich (main)), C.

Chavez Barajas (Liverpool U.), N. Berger (Mainz U., Inst. Phys.), T. Bowcock (Liverpool U.) et al.

e-Print: 2102.08838 [hep-ex]

The dark-PMT: a novel directional light Dark Matter detector based on vertically-aligned carbon nanotubes

F. Pandolfi, G. Cavoto et al.

DOI: 10.1088/1742-6596/2156/1/012051

Published in: J.Phys.Conf.Ser. 2156 (2021), 012051

Carbon Nanostructures for Directional Light Dark Matter Detection

Alice Apponi (Rome U. and INFN, Rome), Gianluca Cavoto (Rome U. and INFN, Rome), Carlo Mariani (Rome U.), Francesco Pandolfi (INFN, Rome), Ilaria Rago (Rome U. and INFN, Rome) et al.

DOI: 10.22323/1.390.0648

Published in: PoS ICHEP2020 (2021), 648

Next-generation ultra-compact calorimeters based on oriented crystals

Mattia Soldani (Ferrara U. and INFN, Ferrara), Laura Bandiera (INFN, Ferrara), Luca Bomben (Insubria U., Como and INFN, Milan Bicocca), Claudia Brizzolari (INFN, Milan Bicocca and Milan Bicocca U.), Riccardo Camattari (Ferrara U. and INFN, Ferrara) et al.

DOI: 10.22323/1.390.0872

Published in: PoS ICHEP2020 (2021), 872

Progress towards the first measurement of charm baryon dipole moments

S. Aiola (INFN, Milan), L. Bandiera (INFN, Ferrara), G. Cavoto (INFN, Rome and Rome U., La Sapienza, Dip. di Astron.), F. De Benedetti (INFN, Milan), J. Fu (INFN, Milan and Milan U.) et al.
e-Print: 2010.11902 [hep-ex]

DOI: 10.1103/PhysRevD.103.072003

Published in: Phys.Rev.D 103 (2021) 7, 072003

A photogrammetric method for target monitoring inside the MEG II detector

G. Cavoto (Rome U.), G. Chiarello (INFN, Rome), M. Hildebrandt (PSI, Villigen), A. Hofer (PSI, Villigen), K. Ieki (Tokyo U., ICEPP) et al.

e-Print: 2010.11576 [physics.ins-det]

DOI: 10.1063/5.0034842 (publication)

Published in: Rev.Sci.Instrum. 92 (2021) 4, 043707

LEMMA approach for the production of low-emittance muon beams

N. Amapane (Turin U. and INFN, Turin), M. Antonelli (Frascati), F. Anulli (INFN, Rome), G. Ballerini (INFN, Milan Bicocca and Insubria U., Como), L. Bandiera (INFN, Ferrara) et al.

DOI: 10.1393/ncc/i2019-19259-6

Published in: Nuovo Cim.C 42 (2020) 6, 259

Response of windowless silicon avalanche photo-diodes to electrons in the 90–900 eV range

Alice Apponi, Gianluca Cavoto, Marco Iannone, Carlo Mariani, Francesco Pandolfi et al.

e-Print: 2008.07169 [physics.ins-det]

DOI: 10.1088/1748-0221/15/11/P11015

Published in: JINST 15 (2020) 11, P11015

CYGNO: a gaseous TPC with optical readout for dark matter directional search

E. Baracchini (GSSI, Aquila and Gran Sasso), L. Benussi (Frascati), S. Bianco (Frascati), C. Capocchia (Frascati), M. Caponero (Frascati and ENEA, Frascati) et al.

e-Print: 2007.12627 [physics.ins-det]

DOI: 10.1088/1748-0221/15/07/C07036 (publication)

Published in: JINST 15 (2020) 07, C07036

Identification of low energy nuclear recoils in a gas time projection chamber with optical readout
E Baracchini (GSSI, Aquila and Gran Sasso), L. Benussi (Frascati), S Bianco (Frascati), C Capoccia (Frascati), M Caponero (Frascati and ENEA, Frascati) et al.

e-Print: 2007.12508 [physics.ins-det]

DOI: 10.1088/1361-6501/abbd12 (publication)

Published in: Measur.Sci.Tech. 32 (2021) 2, 025902

An automatic system for the wiring of Drift Chambers for modern high intensity and high precision particle physics experiments

G. Chiarello (Rome U. and INFN, Rome), A.M. Baldini (INFN, Pisa), G. Cavoto (Rome U. and INFN, Rome), F. Cei (INFN, Pisa and Pisa U.), M. Chiappini (INFN, Pisa) et al.

DOI: 10.1088/1748-0221/15/07/C07034

Published in: JINST 15 (2020) 07, C07034

A density-based clustering algorithm for the CYGNO data analysis

E. Baracchini (GSSI, Aquila and Gran Sasso), L. Benussi (Frascati), S. Bianco (Frascati), C. Capoccia (Frascati), M. Caponero (Frascati and ENEA, Frascati) et al.

e-Print: 2007.01763 [physics.ins-det]

DOI: 10.1088/1748-0221/15/12/T12003 (publication)

Published in: JINST 15 (2020) 12, T12003

Stability and detection performance of a GEM-based Optical Readout TPC with He/CF₄ gas mixtures

E. Baracchini (GSSI, Aquila and Gran Sasso), L. Benussi (Frascati), S. Bianco (Frascati), C. Capoccia (Frascati), M. Caponero (Frascati and ENEA, Frascati) et al.

e-Print: 2007.00608 [physics.ins-det]

DOI: 10.1088/1748-0221/15/10/P10001

Published in: JINST 15 (2020) 10, P10001

Silicon crystals for steering high-intensity particle beams at ultrahigh-energy accelerators

A. Mazzolari (INFN, Ferrara), M. Romagnoni (INFN, Ferrara and Ferrara U.), E. Bagli (INFN, Ferrara), L. Bandiera (INFN, Ferrara), S. Baricordi (Ferrara U.) et al.

e-Print: 2006.15582 [physics.acc-ph]

DOI: 10.1103/PhysRevResearch.3.013108

Published in: Phys.Rev.Res. 3 (2021) 1, 013108

Performance of Prototype of Optically Readout TPC with a ^{55}Fe source

I. Abritta Costa (INFN, Rome), E. Baracchini (GSSI, Aquila), F. Bellini (INFN, Rome and Rome U.), L. Benussi (Frascati), S. Bianco (Frascati) et al.

DOI: 10.1088/1742-6596/1498/1/012017

Published in: J.Phys.Conf.Ser. 1498 (2020), 012017

The Drift Chamber of the MEG II experiment

G.F. Tassielli (INFN, Lecce), A.M. Baldini (INFN, Pisa), G. Cavoto (Rome U. and INFN, Rome), F. Cei (INFN, Pisa and Pisa U.), M. Chiappini (INFN, Pisa) et al.

e-Print: 2006.02378 [physics.ins-det]

DOI: 10.1088/1748-0221/15/09/C09051

Published in: JINST 15 (2020) 09, C09051

Performance of an optically read out time projection chamber with ultra-relativistic electrons

V.C. Antochi (Rome U. and Stockholm U., OKC), G. Cavoto (Rome U. and INFN, Rome), I.A.

Costa (Rome U. and Juiz de Fora U.), E. Di Marco (INFN, Rome), G. D'Imperio (INFN, Rome) et al.

e-Print: 2005.12272 [physics.ins-det]

DOI: 10.1016/j.nima.2021.165209

Published in: Nucl.Instrum.Meth.A 999 (2021), 165209

Observation of strong reduction of multiple scattering for channeled particles in bent crystals

W. Scandale (CERN), G. Arduini (CERN), F. Cerutti (CERN), M. Garattini, S. Gilardoni (CERN) et al.

DOI: 10.1016/j.physletb.2020.135396

Published in: Phys.Lett.B 804 (2020), 135396

Commissioning of the MEG II tracker system

M. Chiappini (INFN, Pisa), A.M. Baldini (INFN, Pisa), G. Cavoto (INFN, Rome and Rome U.), F. Cei (INFN, Pisa and Pisa U.), G. Chiarello (INFN, Rome and Rome U.) et al.

e-Print: 2005.02242 [physics.ins-det]

DOI: 10.1088/1748-0221/15/06/C06056

Published in: JINST 15 (2020) 06, C06056

Search for lepton flavour violating muon decay mediated by a new light particle in the MEG experiment

MEG Collaboration • A.M. Baldini (INFN, Pisa and Pisa U.) et al.

e-Print: 2005.00339 [hep-ex]

DOI: 10.1140/epjc/s10052-020-8364-1

Published in: Eur.Phys.J.C 80 (2020) 9, 858

First evidence of luminescence in a He/CF₄ gas mixture induced by non-ionizing electrons

E. Baracchini (Gran Sasso), L. Benussi (Frascati), S. Bianco (Frascati), C. Capocchia (Frascati), M. Caponero (Frascati and ENEA, Frascati) et al.

e-Print: 2004.10493 [physics.ins-det]

DOI: 10.1088/1748-0221/15/08/P08018

Published in: JINST 15 (2020) 08, P08018

The ultra light Drift Chamber of the MEG II experiment

A.M. Baldini (INFN, Pisa), G. Cavoto (Rome U. and INFN, Rome), F. Cei (Pisa U. and INFN, Pisa), M. Chiappini (INFN, Pisa and U. Siena, DSFTA), G. Chiarello (Rome U. and INFN, Rome) et al.

DOI: 10.1016/j.nima.2019.04.106

Published in: Nucl.Instrum.Meth.A 958 (2020), 162152

Micro pattern gas detector optical readout for directional dark matter searches

G. Cavoto (Rome U. and INFN, Rome), I. Abritta (Rome U. and INFN, Rome), E. Baracchini (GSSI, Aquila), M. Angelone (ENEA, Frascati), F. Bellini (Rome U. and INFN, Rome) et al.

DOI: 10.1016/j.nima.2019.162400

Published in: Nucl.Instrum.Meth.A 958 (2020), 162400

Directional Dark Matter Searches with the CYGNO Project

E. Baracchini (GSSI, Aquila and Gran Sasso), R. Bedogni (Frascati), F. Bellini (INFN, Rome and Rome U.), L. Benussi (Frascati), S. Bianco (Frascati) et al.

DOI: 10.1088/1742-6596/1468/1/012039
Published in: J.Phys.Conf.Ser. 1468 (2020) 1, 012039

CYGNO: Light Dark Matter search with an optically readout TPC

D. Pinci (INFN, Rome), I. Abritta Costa (INFN, Rome), E. Baracchini (GSSI, Aquila), R. Bedogni (Frascati), F. Bellini (Rome U.) et al.

DOI: 10.1393/ncc/i2020-20091-6

Published in: Nuovo Cim.C 43 (2020) 2-3, 91

Muon collider: the Low EMittance Muon Accelerator (LEMMA) approach

Nazar Bartosik (INFN, Turin), M. Antonelli (Frascati), O.R. Blanco-Garcia (Frascati), M. Boscolo (Frascati), M. Iafrati (Frascati) et al.

DOI: 10.22323/1.367.0047

Published in: PoS LeptonPhoton2019 (2019), 047

Carbon nanotubes as anisotropic target for dark matter

G. Cavoto (INFN, Rome and Rome U.), M.G. Betti (INFN, Rome and Rome U.), C. Mariani (INFN, Rome and Rome U.), F. Pandolfi (INFN, Rome and Rome U.), A.D. Polosa (INFN, Rome and Rome U.) et al.

e-Print: 1911.01122 [physics.ins-det]

DOI: 10.1088/1742-6596/1468/1/012232

Published in: J.Phys.Conf.Ser. 1468 (2020) 1, 012232

CYGNO: Triple-GEM Optical Readout for Directional Dark Matter Search

I. Abritta Costa (INFN, Rome), E. Baracchini (GSSI, Aquila), R. Bedogni (Frascati), F. Bellini (Rome U.), L. Benussi (Frascati) et al.

e-Print: 1910.07277 [physics.ins-det]

DOI: 10.1088/1742-6596/1498/1/012016

Published in: J.Phys.Conf.Ser. 1498 (2020), 012016

Tests of Eco-Friendly Gas Mixtures in GEM Based Detectors with Optical Readout

I. Abritta Costa, E. Baracchini, R. Bedogni, F. Bellini, L. Benussi et al.

DOI: 10.1109/NSS/MIC42101.2019.9059721

Published in:

A 1 m³ Gas Time Projection Chamber with Optical Readout for Directional Dark Matter Searches: the CYGNO Experiment

CYGNO Collaboration • E. Baracchini (GSSI, Aquila) et al.

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Francesco Renga (INFN, Rome), Gianluca Cavoto (INFN, Rome and Rome U.), Angela Papa (INFN, Pisa and PSI, Villigen), Emanuele Ripiccini (Geneva U.), Cecilia Voena (INFN, Rome)
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PTOLEMY Collaboration • E. Baracchini (GSSI, Aquila) et al.

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W. Scandale (CERN), F. Andrisani (CERN), G. Arduini (CERN), F. Cerutti (CERN), M. Garattini (CERN and Imperial Coll., London) et al.

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A.M. Baldini (INFN, Pisa), E. Baracchini (Tokyo U., ICEPP), G. Cavoto (INFN, Rome and Rome U.), F. Cei (INFN, Pisa and Pisa U.), M. Chiappini (INFN, Pisa and U. Siena, DSFTA) et al.

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The SE-CpFM Detector for the Crystal-Assisted Extraction at CERN-SPS

Francesca Addesa (INFN, Rome), Leonid Burmistrov (Orsay, LAL), Gianluca Cavoto (INFN, Rome), Sebastien Dubos (Orsay, LAL), Francesco Iacoangeli (INFN, Rome) et al.

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Davide Pinci (INFN, Rome), Emanuele Di Marco (Caltech), Francesco Renga (INFN, Rome), Cecilia Voena (INFN, Rome), Elisabetta Baracchini (Frascati) et al.

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Francesco Renga (INFN, Rome), Gianluca Cavoto (INFN, Rome and Rome U.), Angela Papa (PSI, Villigen), Emanuele Ripiccini (Geneva U.), Cecilia Voena (INFN, Rome)

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Negative Ion Time Projection Chamber operation with SF₆ at nearly atmospheric pressure

E. Baracchini (Frascati and INFN, Rome and Rome U.), G. Cavoto (INFN, Rome and Rome U.), G. Mazzitelli (Frascati), F. Murtas (Frascati and CERN), F. Renga (INFN, Rome and Rome U.) et al.

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V.C. Antochi (Rome U. and INFN, Rome), E. Baracchini (Frascati), G. Cavoto (Rome U. and INFN, Rome and Frascati), E. Di Marco (INFN, Rome), G. Mazzitelli (Frascati) et al.

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The quest for $\mu \rightarrow e \gamma$ and its experimental limiting factors at future high intensity muon beams

G. Cavoto (Rome U. and INFN, Rome), A. Papa (PSI, Villigen), F. Renga (INFN, Rome), E. Ripiccini (Geneva U.), C. Voena (INFN, Rome)

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Roberto Rossi (CERN and INFN, Rome and U. Rome La Sapienza (main)), Walter Scandale (CERN), Gianluigi Arduini (CERN), Mark Butcher (CERN), Francesco Cerutti (CERN) et al.

DOI: 10.22323/1.282.0867

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Nuclear interaction detector system for UA9 experiments based on ArduSiPM prototype

F. Iacoangeli (INFN, Rome and Rome U.), V. Bocci (INFN, Rome and Rome U.), G. Cavoto (INFN, Rome and Rome U.), M. Garattini (CERN), L. Recchia (INFN, Rome and Rome U.) et al.

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F. Iacoangeli (INFN, Rome and Rome U.), F. Addesa (INFN, Rome and Rome U.), V. Bocci (INFN, Rome and Rome U.), G. Cavoto (INFN, Rome and Rome U.), M. Garattini (CERN) et al.

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High-efficiency deflection of high energy protons due to channeling along the $\langle 110 \rangle$ axis of a bent silicon crystal

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), M. Garattini (CERN) et al.

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Dark Sectors 2016 Workshop: Community Report

Jim Alexander (Cornell U., Phys. Dept.), Marco Battaglieri (INFN, Genoa), Bertrand Echenard (Caltech), Rouven Essig (SUNY, Stony Brook), Matthew Graham (SLAC) et al.

e-Print: 1608.08632 [hep-ph]

The $\mu \rightarrow e \gamma$ final search with MEG and the MEG-II status

Gianluca Cavoto (INFN, Rome)

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A.M. Baldini, E. Baracchini, L. Berretta, S. Bianucci, G. Cavoto et al.

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Very Low Emittance Muon Beam using Positron Beam on Target
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MEG Collaboration • A.M. Baldini (INFN, Pisa) et al.
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G. Cavoto (INFN, Rome), E.N.M. Cirillo (Rome U.), F. Cocina (Rome U.), J. Ferretti (Rome U. and INFN, Rome), A.D. Polosa (Rome U. and INFN, Rome and CERN)
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New detectors for axions
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UA9 Collaboration • R. Rossi (CERN and INFN, Rome) et al.
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Axion-like particle searches with sub-THz photons

L. Capparelli (UCLA), G. Cavoto (INFN, Rome), J. Ferretti (INFN, Rome and Rome U.), F. Giazotto (Pisa, Scuola Normale Superiore), A.D. Polosa (INFN, Rome and Rome U. and CERN) et al.

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MEG Collaboration • A.M. Baldini (Pisa U. and INFN, Pisa) et al.

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W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), M. Garattini (CERN) et al.

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Measurements of coherent interactions of 400 GeV protons in silicon bent crystals

Roberto Rossi (CERN and INFN, Rome), Gianluca Cavoto (INFN, Rome), Daniele Mirarchi (CERN), Stefano Redaelli (CERN), Walter Scandale (CERN)

DOI: 10.1016/j.nimb.2015.03.001

Published in: Nucl.Instrum.Meth.B 355 (2015), 369-373

Deflection of positively charged heavy particles by the crystal miscut surface

A. Babaev, G. Cavoto, S.B. Dabagov

DOI: 10.1016/j.nimb.2015.01.018

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Test of full size Cherenkov detector for proton Flux Measurements

L. Burmistrov (Orsay, LAL), D. Breton (Orsay, LAL), G. Cavoto (INFN, Rome), V. Chaumat (Orsay, LAL), J. Collin (Orsay, LAL) et al.

DOI: 10.1016/j.nima.2014.11.089

Published in: Nucl.Instrum.Meth.A 787 (2015), 173-175

Observation of nuclear dechanneling length reduction for high energy protons in a short bent crystal

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), M. Garattini (CERN) et al.

DOI: 10.1016/j.physletb.2015.02.072

Published in: Phys.Lett.B 743 (2015), 440-443

Comparative results on the deflection of positively and negatively charged particles by multiple volume reflections in a multi-strip silicon deflector

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), M. Garattini (CERN) et al.

DOI: 10.1134/S0021364015100124

Published in: JETP Lett. 101 (2015) 10, 679-684

Directional Dark Matter Searches with Carbon Nanotubes

L.M. Capparelli (Rome U.), G. Cavoto (INFN, Rome), D. Mazzilli (Rome U.), A.D. Polosa (Rome U. and INFN, Rome)

e-Print: 1412.8213 [physics.ins-det]

DOI: 10.1016/j.dark.2015.08.002 , 10.1016/j.dark.2015.12.004 (erratum)

Published in: Phys.Dark Univ. 9-10 (2015), 24-30, Phys.Dark Univ. 11 (2016), 79-80 (erratum)

Study of the single cluster response of a helium-isobutane drift chamber prototype using 8 keV X-rays

G. Cavoto (INFN, Rome), S. Dabagov (Lebedev Inst. and Moscow Phys. Eng. Inst.), D. Hampai (Frascati), G. Piredda (INFN, Rome), F. Renga (INFN, Rome) et al.

e-Print: 1410.8719 [physics.ins-det]

DOI: 10.1088/1748-0221/10/03/P03012

Published in: JINST 10 (2015) 03, P03012

Deflection of high energy protons by multiple volume reflections in a modified multi-strip silicon deflector

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), S. Gilardoni (CERN) et al.

DOI: 10.1016/j.nimb.2014.08.013

Published in: Nucl.Instrum.Meth.B 338 (2014), 108-111

Searching for the mu into e gamma decay with MEG and MEG-II

Gianluca Cavoto (INFN, Rome)

e-Print: 1407.8327 [hep-ex]

Mirroring of 400 GeV/c protons by an ultra-thin straight crystal

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), S. Gilardoni (CERN) et al.

DOI: 10.1016/j.physletb.2014.04.062

Published in: Phys.Lett.B 734 (2014), 1-6

The Physics of the B Factories

BaBar and Belle Collaborations • A.J. Bevan (Queen Mary, U. of London) et al.

e-Print: 1406.6311 [hep-ex]

DOI: 10.1140/epjc/s10052-014-3026-9

Published in: Eur.Phys.J.C 74 (2014), 3026

Observation of focusing of 400 GeV/c proton beam with the help of bent crystals

W. Scandale (INFN, Rome and Orsay, LAL and CERN), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), S. Gilardoni (CERN) et al.

DOI: 10.1016/j.physletb.2014.05.051 (erratum)

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IRIDE: Interdisciplinary research infrastructure based on dual electron linacs and lasers

M. Ferrario, D. Alesini, M. Alessandrini, M.P. Anania, S. Andreas et al.

DOI: 10.1016/j.nima.2013.11.040

Published in: Nucl.Instrum.Meth.A 740 (2014), 138-146

Deflection of proton beams by crystal miscut surface

A.A. Babaev (INFN, Rome and Tomsk Polytechnic U.), G. Cavoto (INFN, Rome), S.B. Dabagov (Frascati and Lebedev Inst. and Moscow Phys. Eng. Inst.)

e-Print: 1401.5271 [physics.acc-ph]

Measurement of Inner Bremsstrahlung in Polarized Muon Decay with MEG

J. Adam (PSI, Villigen and Zurich, ETH), X. Bai (Tokyo U., ICEPP), A.M. Baldini (INFN, Pisa), E. Baracchini (UC, Irvine and KEK, Tsukuba and Tokyo U., ICEPP), C. Bemporad (INFN, Pisa and Pisa U.) et al.

DOI: 10.1016/j.nuclphysbps.2014.02.019

Published in: Nucl.Phys.B Proc.Suppl. 248-250 (2014), 108-111

On the deflection of a positron beam by the miscut surface of an oriented crystal

A.A. Babaev (INFN, Rome and Tomsk Polytechnic U.), G. Cavoto (INFN, Rome), S.B. Dabagov (Frascati and Lebedev Inst. and Moscow Phys. Eng. Inst.)

DOI: 10.1134/S0021364014210036

Published in: JETP Lett. 100 (2015) 9, 550-554, Pisma Zh.Eksp.Teor.Fiz. 100 (2014) 9, 627-632

A simulation tool for scintillating fibers coupled to SiPM for MIP and heavy ionizing particle identification

A. Papa, G. Cavoto, E. Ripiccini, M.De Gerone

DOI: 10.1088/1748-0221/9/05/C05066

Published in: JINST 9 (2014), C05066

Feasibility study of an active target for the MEG experiment

A. Papa (PSI, Villigen), G. Cavoto (INFN, Rome), E. Ripiccini (INFN, Rome and Rome U.)

DOI: 10.1016/j.nuclphysbps.2014.02.023

Published in: Nucl.Phys.B Proc.Suppl. 248-250 (2014), 121-123

Measurement of the radiative decay of polarized muons in the MEG experiment

MEG Collaboration • A.M. Baldini (INFN, Pisa and Pisa U.) et al.

e-Print: 1312.3217 [hep-ex]

DOI: 10.1140/epjc/s10052-016-3947-6

Published in: Eur.Phys.J.C 76 (2016) 3, 108

Optimization of the crystal assisted collimation of the SPS beam

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), S. Gilardoni (CERN) et al.

DOI: 10.1016/j.physletb.2013.08.028

Published in: Phys.Lett.B 726 (2013), 182-186

IRIDE White Book, An Interdisciplinary Research Infrastructure based on Dual Electron linacs&lasers

D. Alesini (Frascati), M. Alessandroni (Unlisted, IT), M.P. Anania (Frascati), S. Andreas (DESY), M. Angelone (ENEA, Rome) et al.

e-Print: 1307.7967 [physics.ins-det]

The BABAR Detector: Upgrades, Operation and Performance

BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.

e-Print: 1305.3560 [physics.ins-det]

DOI: 10.1016/j.nima.2013.05.107

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The MEG detector for $\mu^+ \rightarrow e^+ \gamma$ decay search

J. Adam (PSI, Villigen and Zurich, ETH), X. Bai (Tokyo U., ICEPP), A.M. Baldini (INFN, Pisa and Pisa U.), E. Baracchini (Tokyo U., ICEPP and KEK, Tsukuba and UC, Irvine), C. Bemporad (INFN, Pisa and Pisa U.) et al.

e-Print: 1303.2348 [physics.ins-det]

DOI: 10.1140/epjc/s10052-013-2365-2

Published in: Eur.Phys.J.C 73 (2013) 4, 2365

New constraint on the existence of the $\mu^+ \rightarrow e^+ \gamma$ decay

MEG Collaboration • J. Adam (PSI, Villigen and Zurich, ETH) et al.

e-Print: 1303.0754 [hep-ex]

DOI: 10.1103/PhysRevLett.110.201801

Published in: Phys.Rev.Lett. 110 (2013), 201801

MEG Upgrade Proposal

A.M. Baldini (INFN, Pisa), F. Cei (INFN, Pisa and Pisa U.), C. Cerri (INFN, Pisa), S. Dussoni (INFN, Pisa), L. Galli (INFN, Pisa) et al.

e-Print: 1301.7225 [physics.ins-det]

Development of an active target for $\mu \rightarrow e \gamma$ search

A. Papa (PSI, Villigen), G. Cavoto (INFN, Rome), E. Ripiccini (Rome U. and INFN, Rome)

DOI: 10.1016/j.nima.2012.11.111

Published in: Nucl.Instrum.Meth.A 718 (2013), 580-581

Cherenkov detector for proton flux measurement for UA9 project

L. Burmistrov (Orsay, LAL), D. Breton (Orsay, LAL), V. Chaumat (Orsay, LAL), S. Conforti Di Lorenzo (Orsay, LAL), J. Jeglot (Orsay, LAL) et al.

DOI: 10.1109/NSSMIC.2013.6829430

Published in:

The Thin Light Trigger for the UA9 experiment

F. Iacoangeli, V. Bocci, G. Cavoto, L. Recchia, F. Pallotto

DOI: 10.1109/NSSMIC.2013.6829750

Published in:

The loss of ions at beam multiple passage through a bent crystal

A. Babaev (INFN, Rome and Tomsk Polytechnic U.), G. Cavoto (INFN, Rome), S.B. Dabagov (LNF, Dafne Light and LPI, Moscow (main))

DOI: 10.1016/j.nimb.2013.02.018

Published in: Nucl.Instrum.Meth.B 309 (2013), 120-123

Strong reduction of the off-momentum halo in crystal assisted collimation of the SPS beam

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), R. Assmann (CERN), F. Cerutti (CERN), S. Gilardoni (CERN) et al.

DOI: 10.1016/j.physletb.2012.07.006

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A search for the decay modes $B^{\pm} \rightarrow h^{\pm} \tau^{\pm} \nu$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1204.2852 [hep-ex]

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e-Print: 1202.1313 [hep-ex]
DOI: 10.1103/PhysRevLett.108.211801
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A Beam Profile Monitor for the UA9 Experiment
Francesco Iacoangeli (INFN, Rome), G. Cavoto (INFN, Rome), R. Santacesaria (INFN, Rome), P. Valente (INFN, Rome)
DOI: 10.1109/NSSMIC.2012.6551206
Published in:

Position, timing and particle ID with scintillating fibers read-out by SiPM
Angela Papa (PSI, Villigen), Aldo Antognini (Zurich, ETH), Gianluca Cavoto (INFN, Rome), Emanuele Ripiccini (INFN, Rome)
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Initial-State Radiation Measurement of the $e^+e^- \rightarrow \pi^+\pi^-\pi^+\pi^-$ Cross Section
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
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Published in: Phys.Rev.D 85 (2012), 112009

Searching for $\mu \rightarrow e \gamma$ with MEG
G. Cavoto
DOI: 10.1393/ncc/i2012-11355-9
Published in: Nuovo Cim.C 035 (2012) 06, 97-104, Frascati Phys.Ser. 57 (2013), 97-104

Study of CP violation in Dalitz-plot analyses of $B^0 \rightarrow K^+K^-K^0(S)$, $B^+ \rightarrow K^+K^-K^+$, and $B^+ \rightarrow K^0(S)K^0(S)K^+$
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
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Study of $\bar{B} \rightarrow X_u \ell \bar{\nu}$ decays in $B \bar{B}$ events tagged by a fully reconstructed B-meson decay and determination of $|V_{ub}|$
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1112.0702 [hep-ex]
DOI: 10.1103/PhysRevD.86.032004
Published in: Phys.Rev.D 86 (2012), 032004

B^0 meson decays to $\rho^0 K^{*0}$, $f_0 K^{*0}$, and $\rho^- K^{*+}$, including higher K^{*} resonances
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1112.3896 [hep-ex]
DOI: 10.1103/PhysRevD.85.072005
Published in: Phys.Rev.D 85 (2012), 072005

Observation and study of the baryonic B-meson decays B to $D^{(*)} p \bar{p}$ (π) (π)

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1111.4387 [hep-ex]

DOI: 10.1103/PhysRevD.85.092017

Published in: Phys.Rev.D 85 (2012), 092017

Amplitude analysis and measurement of the time-dependent CP asymmetry of $B^0 \rightarrow K_S^0 K_S^0 K_S^0$ decays

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1111.3636 [hep-ex]

DOI: 10.1103/PhysRevD.85.054023

Published in: Phys.Rev.D 85 (2012), 054023

Search for the $Z_1(4050)^{++}$ and $Z_2(4250)^{++}$ states in $\bar{B}^0 \rightarrow \chi_{c1} K^+ \pi^+$ and $B^+ \rightarrow \chi_{c1} K^0_S \pi^+$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1111.5919 [hep-ex]

DOI: 10.1103/PhysRevD.85.052003

Published in: Phys.Rev.D 85 (2012), 052003

Quark flavor mixing, last came the charm

G. Cavoto (INFN, Rome), M. Pelliccioni (INFN, Turin)

DOI: 10.1393/ncr/i2011-10071-6

Published in: Riv.Nuovo Cim. 34 (2011) 11, 643-678

Search for the Decay $D^0 \rightarrow \gamma \gamma$ and Measurement of the Branching Fraction for $D^0 \rightarrow \pi^0 \pi^0$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1110.6480 [hep-ex]

DOI: 10.1103/PhysRevD.85.091107

Published in: Phys.Rev.D 85 (2012), 091107

A Measurement of the Semileptonic Branching Fraction of the B_s Meson

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1110.5600 [hep-ex]

DOI: 10.1103/PhysRevD.85.011101

Published in: Phys.Rev.D 85 (2012), 011101

Search for $\bar{B} \rightarrow \Lambda_c^+ X 1- \nu_l$ Decays in Events With a Fully Reconstructed B Meson

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1110.6005 [hep-ex]

DOI: 10.1103/PhysRevD.85.011102

Published in: Phys.Rev.D 85 (2012), 011102

Search for CP Violation in the Decay $\tau^- \rightarrow \pi^- K^0_S (\geq 0 \pi^0) \nu_\tau$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1109.1527 [hep-ex]

DOI: 10.1103/PhysRevD.85.031102, 10.1103/PhysRevD.85.099904

Published in: Phys.Rev.D 85 (2012), 031102, Phys.Rev.D 85 (2012), 099904 (erratum)

Observation of the rare decay $B^+ \rightarrow K^+ \pi^0 \pi^0$ and measurement of the quasi-two body contributions $B^+ \rightarrow K^*(892)^+ \pi^0$, $B^+ \rightarrow f_0(980) K^+$ and $B^+ \rightarrow \chi_{c0} K^+$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1109.0143 [hep-ex]

DOI: 10.1103/PhysRevD.84.092007

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Observation of the baryonic B decay $\bar{B}^0 \rightarrow \Lambda_c^+ \bar{\Lambda} K^-$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.84.071102 , 10.1103/PhysRevD.85.039903

Published in: Phys.Rev.D 84 (2011), 071102

Study of $\Upsilon(3S,2S) \rightarrow \eta \Upsilon(1S)$ and $\Upsilon(3S,2S) \rightarrow \pi^+ \pi^- \Upsilon(1S)$ hadronic transitions

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1108.5874 [hep-ex]

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Published in: Phys.Rev.D 84 (2011), 092003

Search for hadronic decays of a light Higgs boson in the radiative decay $\Upsilon \rightarrow \gamma A^0$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1108.3549 [hep-ex]

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Published in: Phys.Rev.Lett. 107 (2011), 221803

Branching Fraction Measurements of the Color-Suppressed Decays $\bar{B}^0 \rightarrow D^{(*)0} \pi^0$, $D^{(*)0} \eta$, $D^{(*)0} \omega$, and $D^{(*)0} \eta'$ and Measurement of the Polarization in the Decay $\bar{B}^0 \rightarrow D^{*0} \omega$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1107.5751 [hep-ex]

DOI: 10.1103/PhysRevD.84.112007 , 10.1103/PhysRevD.87.039901

Published in: Phys.Rev.D 84 (2011), 112007, Phys.Rev.D 87 (2013) 3, 039901 (erratum)

New limit on the lepton-flavour violating decay $\mu^+ \rightarrow e^+ \gamma$

MEG Collaboration • J. Adam (PSI, Villigen and Zurich, ETH) et al.

e-Print: 1107.5547 [hep-ex]

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Searches for Rare or Forbidden Semileptonic Charm Decays

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1107.4465 [hep-ex]

DOI: 10.1103/PhysRevD.84.072006

Published in: Phys.Rev.D 84 (2011), 072006

The UA9 experimental layout

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), R. Assmann (CERN), C. Bracco (CERN), F. Cerutti (CERN) et al.

e-Print: 1106.5861 [physics.acc-ph]

DOI: 10.1088/1748-0221/6/10/T10002

Published in: JINST 6 (2011), T10002

Search for CP violation using T -odd correlations in $D^+ \rightarrow K^+ K^0_S \pi^+ \pi^-$ and $D^+_s \rightarrow K^+ K^0_S \pi^+ \pi^-$ decays

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1105.4410 [hep-ex]

DOI: 10.1103/PhysRevD.84.031103

Published in: Phys.Rev.D 84 (2011), 031103

Study of di-pion bottomonium transitions and search for the $h_b(1P)$ state

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1105.4234 [hep-ex]

DOI: 10.1103/PhysRevD.84.011104

Published in: Phys.Rev.D 84 (2011), 011104

Amplitude Analysis of $B^0 \rightarrow K^+ \pi^- \pi^0$ and Evidence of Direct CP Violation in $B \rightarrow K^* \pi$ decays

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1105.0125 [hep-ex]

DOI: 10.1103/PhysRevD.83.112010

Published in: Phys.Rev.D 83 (2011), 112010

Measurements of branching fractions and CP asymmetries and studies of angular distributions for $B \rightarrow \phi \phi K$ decays

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1105.5159 [hep-ex]

DOI: 10.1103/PhysRevD.84.012001

Published in: Phys.Rev.D 84 (2011), 012001

Search for $B \rightarrow u$ Transitions in $B^{\pm} \rightarrow [K^{\mp} \pi^{\pm} \pi^0]_D K^{\pm}$ Decays

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1104.4472 [hep-ex]

DOI: 10.1103/PhysRevD.84.012002

Published in: Phys.Rev.D 84 (2011), 012002

Study of radiative bottomonium transitions using converted photons

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1104.5254 [hep-ex]

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Measurement of the mass and width of the $D(s_1)(2536)^+$ meson

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1103.2675 [hep-ex]

DOI: 10.1103/PhysRevD.83.072003

Published in: Phys.Rev.D 83 (2011), 072003

Observation of $\eta_c(1S)$ and $\eta_c(2S)$ decays to $K^+ K^- \pi^+ \pi^- \pi^0$ in two-photon interactions

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

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Cross Sections for the Reactions $e^+e^- \rightarrow K^+ K^- \pi^+\pi^-$, $K^+ K^- \pi^0\pi^0$, and $K^+ K^- K^+ K^-$ Measured Using Initial-State Radiation Events

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
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BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
e-Print: 1011.5477 [hep-ex]
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Evidence for the $h_b(1P)$ meson in the decay $\Upsilon(3S) \rightarrow \pi^0 h_b(1P)$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1102.4565 [hep-ex]
DOI: 10.1103/PhysRevD.84.091101
Published in: Phys.Rev.D 84 (2011), 091101

Crystal collimation of hadron beam, the UA9 experiment

G. Cavoto
DOI: 10.1393/ncc/i2011-11031-8
Published in: Nuovo Cim.C 034N06 (2011), 36-40

Comparative results on collimation of the SPS beam of protons and Pb ions with bent crystals

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), R. Assmann (CERN), C. Bracco (CERN), F. Cerutti (CERN) et al.
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MEG Collaboration • J. Adam et al.
DOI: 10.1016/j.nima.2011.03.048
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Searches for the baryon- and lepton-number violating decays $B^0 \rightarrow \Lambda_c^+ \ell^-$, $B^- \rightarrow \Lambda \ell^-$, and $B^- \rightarrow \bar{\Lambda} \ell^-$

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.83.091101
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Observation of parametric X-rays produced by 400-GeV/c protons in bent crystals

W. Scandale (CERN and Orsay, LAL), G. Arduini (CERN), R. Assmann (CERN), F. Cerutti (CERN), S. Gilardoni (CERN) et al.
DOI: 10.1016/j.physletb.2011.05.060

Published in: Phys.Lett.B 701 (2011), 180-185

The MEG timing counter calibration and performance

M. De Gerone (INFN, Genoa and Genoa U.), S. Dussoni (INFN, Genoa and Genoa U.), K. Fratini (INFN, Genoa and Genoa U.), F. Gatti (INFN, Genoa and Genoa U.), R. Valle (INFN, Genoa and Genoa U.) et al.

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Published in: Nucl.Instrum.Meth.A 638 (2011), 41-46

Measurement of the $\gamma \gamma^* \rightarrow \eta$ and $\gamma \gamma^* \rightarrow \eta'$ transition form factors

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

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Measurements of branching fractions, polarizations, and direct CP-violation asymmetries in $B^+ \rightarrow \rho^0 K^{*+}$ and $B^+ \rightarrow f_0(980)K^{*+}$ decays

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1012.4044 [hep-ex]

DOI: 10.1103/PhysRevD.83.051101

Published in: Phys.Rev.D 83 (2011), 051101

Analysis of the $D^+ \rightarrow K^- \pi^+ e^+ \nu_e$ decay channel

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1012.1810 [hep-ex]

DOI: 10.1103/PhysRevD.83.072001

Published in: Phys.Rev.D 83 (2011), 072001

Observation of the Decay $B^{\pm} \rightarrow D_{s1}^{(*)\pm} K^{\pm} \ell^{\pm} \bar{\nu}_{\ell}$

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1012.4158 [hep-ex]

DOI: 10.1103/PhysRevLett.107.041804

Published in: Phys.Rev.Lett. 107 (2011), 041804

Measurement of partial branching fractions of inclusive charmless B meson decays to K^+ , K^0 , and π^+

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1012.5031 [hep-ex]

DOI: 10.1103/PhysRevD.83.031103

Published in: Phys.Rev.D 83 (2011), 031103

Simulation Results for Crystal Collimation Experiment in SPS UA9

Emanuele Laface (CERN), Walter Scandale (CERN), Gianluca Cavoto (INFN, Rome), Steve Peggs (Brookhaven Natl. Lab.)

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Measurement of the $B \rightarrow \bar{D}^{(*)} D^{(*)} K$ branching fractions

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1011.3929 [hep-ex]

DOI: 10.1103/PhysRevD.83.032004

Published in: Phys.Rev.D 83 (2011), 032004

Dalitz plot analysis of $D_s^+ \rightarrow K^+ K^- \pi^+$

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1011.4190 [hep-ex]

DOI: 10.1103/PhysRevD.83.052001

Published in: Phys.Rev.D 83 (2011), 052001

Studies of $\tau \rightarrow \eta K \nu$ and $\tau \rightarrow \eta \pi \nu(\tau)$ at BaBar and a search for a second-class current

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1011.3917 [hep-ex]

DOI: 10.1103/PhysRevD.83.032002

Published in: Phys.Rev.D 83 (2011), 032002

Search for the Decay $B^0 \rightarrow \gamma \gamma$

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1010.2229 [hep-ex]

DOI: 10.1103/PhysRevD.83.032006

Published in: Phys.Rev.D 83 (2011), 032006

Measurement of the $B^0 \rightarrow \pi^0 \ell \ell^+ \nu$ and $B^+ \rightarrow \eta^{(\prime)} \ell \ell^+ \nu$ Branching Fractions, the $B^0 \rightarrow \pi^- \ell \ell^+ \nu$ and $B^+ \rightarrow \eta \ell \ell^+ \nu$ Form-Factor Shapes, and Determination of $|V_{ub}|$

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1010.0987 [hep-ex]

DOI: 10.1103/PhysRevD.83.052011

Published in: Phys.Rev.D 83 (2011), 052011

Averages of b -hadron, c -hadron, and τ -lepton properties

Heavy Flavor Averaging Group • D. Asner et al.

e-Print: 1010.1589 [hep-ex]

Observation of new resonances decaying to $D \pi$ and $D^* \pi$ in inclusive e^+e^- collisions near $\sqrt{s} = 10.58$ GeV

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1009.2076 [hep-ex]

DOI: 10.1103/PhysRevD.82.111101

Published in: Phys.Rev.D 82 (2010), 111101

Search for the Rare Decay $B \rightarrow K \bar{\nu} \nu$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
e-Print: 1009.1529 [hep-ex]
DOI: 10.1103/PhysRevD.82.112002
Published in: Phys.Rev.D 82 (2010), 112002

Exclusive Production of $D^+ D^-$, $D^{*+} D^-$, and $D^{*+} D^{*-}$ via $e^+ e^-$ Annihilation with Initial-State-Radiation
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
e-Print: 1008.0338 [hep-ex]
DOI: 10.1103/PhysRevD.82.052004
Published in: Phys.Rev.D 82 (2010), 052004

Evidence for $B^+ \rightarrow \tau^+ \nu_{\tau}$ decays using hadronic B tags
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
e-Print: 1008.0104 [hep-ex]

Measurement of the Absolute Branching Fractions for $D^+ \rightarrow \ell^+ \bar{\nu}_{\ell}$ and Extraction of the Decay Constant f_{D^+}
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.82.091103 , 10.1103/PhysRevD.91.019901
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Search for $J/\psi(2220)$ in radiative J/ψ decays
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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Search for $B^+ \rightarrow a_1^+(1260) K^{*0}(892)$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
e-Print: 1007.2732 [hep-ex]
DOI: 10.1103/PhysRevD.82.091101
Published in: Phys.Rev.D 82 (2010), 091101

Search for Production of Invisible Final States in Single-Photon Decays of $\Upsilon(1S)$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.82.072004
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Observation of the decay $\bar{B}^0 \rightarrow \Lambda_c^+ \bar{p} \pi^0$
BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.

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Dalitz-plot Analysis of $B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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Correlated leading baryon-antibaryon production in $e^+e^- \rightarrow c\bar{c} \rightarrow \Lambda_c^+ \bar{\Lambda}_c^- X$
BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.
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Search for $b \rightarrow u$ transitions in $B^0 \rightarrow DK^0$ and D^*K^0 Decays
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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Study of $B \rightarrow X\gamma$ Decays and Determination of $|V_{td}/V_{ts}|$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.82.051101
Published in: Phys.Rev.D 82 (2010), 051101

Evidence for the decay $X(3872) \rightarrow J/\psi \omega$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
e-Print: 1005.5190 [hep-ex]
DOI: 10.1103/PhysRevD.82.011101
Published in: Phys.Rev.D 82 (2010), 011101

Observation of the Rare Decay $B^+ \rightarrow K^+ \pi^0 \pi^0$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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Preliminary results of the crystal collimation test in UA9
Daniele Mirarchi (INFN, Rome), Gianluca Cavoto (INFN, Rome), Roberto Losito (CERN), Walter Scandale (CERN), Alexander Taratin (Dubna, JINR)
Published in: Conf.Proc.C 100523 (2010), TUPEB075

Study of $B \rightarrow \pi \ell \bar{\nu}$ and $B \rightarrow \rho \ell \bar{\nu}$ Decays and Determination of $|V_{ub}|$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
e-Print: 1005.3288 [hep-ex]
DOI: 10.1103/PhysRevD.83.032007
Published in: Phys.Rev.D 83 (2011), 032007

Search for $B^+ \rightarrow D^+ K^0$ and $B^+ \rightarrow D^+ K^*0$ decays
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1005.0068 [hep-ex]
DOI: 10.1103/PhysRevD.82.092006
Published in: Phys.Rev.D 82 (2010), 092006

Evidence for direct CP violation in the measurement of the Cabibbo-Kobayashi-Maskawa angle γ with $B^+ \rightarrow D^{(*)} K^{*-} \pi^+$ decays

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
e-Print: 1005.1096 [hep-ex]
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Measurement of D^0 -anti D^0 mixing parameters using $D^0 \rightarrow K(S)^0 \pi^+ \pi^-$ and $D^0 \rightarrow K(S)^0 K^+ K^-$ decays

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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Observation of the $\Upsilon(1^3D_J)$ Bottomonium State through Decays to $\pi^+ \pi^- \Upsilon(1S)$

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
e-Print: 1004.0175 [hep-ex]
DOI: 10.1103/PhysRevD.82.111102
Published in: Phys.Rev.D 82 (2010), 111102

B-meson decays to $\eta' \rho$, $\eta' f_0$, and $\eta' K^* K$

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
e-Print: 1004.0240 [hep-ex]
DOI: 10.1103/PhysRevD.82.011502
Published in: Phys.Rev.D 82 (2010), 011502

Search for CP violation using T -odd correlations in $D^0 \rightarrow K^+ K^- \pi^+ \pi^-$ decays

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
e-Print: 1003.3397 [hep-ex]
DOI: 10.1103/PhysRevD.81.111103
Published in: Phys.Rev.D 81 (2010), 111103

Observation of the Rare Decay $B^0 \rightarrow K^0(s) K^+ \pi^-$

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
e-Print: 1003.0640 [hep-ex]
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Published in: Phys.Rev.D 82 (2010), 031101

Measurement of the Branching Fraction for $D^+ \rightarrow \tau^+ \nu_\tau$ and Extraction of the Decay Constant f_{D_s}

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1003.3063 [hep-ex]

Measurement of the $\gamma \gamma^* \rightarrow \eta_c$ transition form factor

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
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Test of lepton universality in Upsilon(1S) decays at BaBar
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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Observation of the $\chi_{c2}(2p)$ Meson in the Reaction $\gamma \gamma \rightarrow D \bar{D}$ at
{BaBar}
BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.
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Limits on tau Lepton-Flavor Violating Decays in three charged leptons
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1002.4550 [hep-ex]
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Published in: Phys.Rev.D 81 (2010), 111101

First results on the SPS beam collimation with bent crystals
W. Scandale (CERN), G. Arduini (CERN), R. Assmann (CERN), C. Bracco (CERN), S. Gilardoni
(CERN) et al.
DOI: 10.1016/j.physletb.2010.07.023
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Search for Charged Lepton Flavor Violation in Narrow Upsilon Decays
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Published in: Phys.Rev.Lett. 104 (2010), 151802

Measurements of Charged Current Lepton Universality and $|V_{us}|$ using Tau Lepton Decays to
 $e^- \bar{\nu}_e \nu_\tau$, $\mu^- \bar{\nu}_\mu \nu_\tau$, $\pi^- \nu_\tau$, and $K^- \nu_\tau$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A Search for $B^+ \rightarrow \ell^+ \nu_\ell$ Recoiling Against $B^0 \rightarrow \ell^+ \bar{\nu}_\ell$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0912.2453 [hep-ex]
DOI: 10.1103/PhysRevD.81.051101
Published in: Phys.Rev.D 81 (2010), 051101

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BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.
e-Print: 0911.1988 [hep-ex]

Observation of inclusive D^{*+} production in the decay of Upsilon(1S)

BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.

e-Print: 0911.2024 [hep-ex]

DOI: 10.1103/PhysRevD.81.011102

Published in: Phys.Rev.D 81 (2010), 011102

Measurement of CP violation observables and parameters for the decays $B^+ \rightarrow D K^{*+}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.80.092001

Published in: Phys.Rev.D 80 (2009), 092001

Measurements of the tau mass and the mass difference of the tau⁺ and tau⁻ at BABAR

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.80.092005

Published in: Phys.Rev.D 80 (2009), 092005

Measurement of branching fractions of B decays to $K(1)(1270)\pi$ and $K(1)(1400)\pi$ and determination of the CKM angle α from $B^0 \rightarrow a(1)(1260)^+ \pi^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0909.2171 [hep-ex]

DOI: 10.1103/PhysRevD.81.052009

Published in: Phys.Rev.D 81 (2010), 052009

Measurement and interpretation of moments in inclusive semileptonic decays $\text{anti-B} \rightarrow X(c) l \text{ anti-}\nu$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.81.032003

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.Lett. 103 (2009), 251801

Observation and study of baryonic B decays: $B \rightarrow D^{(*)} p \text{ anti-}p$, $D^{(*)} p \text{ anti-}p \pi$, and $D^{(*)} p \text{ anti-}p \pi \pi$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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A limit for the $\mu \rightarrow e \gamma$ decay from the MEG experiment

MEG Collaboration • J. Adam (PSI, Villigen and Zurich, ETH) et al.
e-Print: 0908.2594 [hep-ex]
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Search for a Narrow Resonance in e^+e^- to Four Lepton Final States
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Study of $D(sJ)$ decays to D^*K in inclusive e^+e^- interactions
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of D^0 - anti- D^0 Mixing using the Ratio of Lifetimes for the Decays $D^0 \rightarrow K^- \pi^+$ and $K^+ K^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Published in: Phys.Rev.D 80 (2009), 071103

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0908.2381 [hep-ex]
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B meson decays to charmless meson pairs containing eta or eta' mesons
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A Model-independent search for the decay $B^+ \rightarrow l^+ \nu(l) \gamma$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Published in: Phys.Rev.D 80 (2009), 111105

Search for B-meson decays to $b(1 \rho)$ and $b(1) K^*$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0907.3485 [hep-ex]
DOI: 10.1103/PhysRevD.80.051101
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Flavor Physics in the Quark Sector

Mario Antonelli (Frascati), David Mark Asner (Carleton U.), D. Bauer (Imperial Coll., London), Thomas G. Becher (Fermilab), M. Beneke (Aachen, Tech. Hochsch.) et al.

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Observation of the baryonic B-decay $\bar{B}^0 \rightarrow \Lambda_c^+ \bar{p} K^- \pi^+$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0907.4566 [hep-ex]

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Measurement of Branching Fractions and CP and Isospin Asymmetries in $B \rightarrow K^*(892) \gamma$ Decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0906.2177 [hep-ex]

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Published in: Phys.Rev.Lett. 103 (2009), 211802

Search for a low-mass Higgs boson in $Y(3S) \rightarrow \gamma A_0$, $A_0 \rightarrow \tau^+ \tau^-$ at BABAR

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Time-dependent amplitude analysis of $B^0 \rightarrow K_0(S) \pi^+ \pi^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the $\gamma \gamma^* \rightarrow \pi^0$ transition form factor

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0905.4778 [hep-ex]

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0905.4539 [hep-ex]

DOI: 10.1103/PhysRevLett.103.081803

Published in: Phys.Rev.Lett. 103 (2009), 081803

Search for B^0 Meson Decays to $\pi^0 K_0(S) K_0(S)$, $\eta K_0(S) K_0(S)$, and η' $K_0(S) K_0(S)$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0905.0868 [hep-ex]

DOI: 10.1103/PhysRevD.80.011101

Published in: Phys.Rev.D 80 (2009), 011101

Measurement of $|V_{cb}|$ and the Form-Factor Slope in anti-B \rightarrow D l- anti- ν Decays in Events Tagged by a Fully Reconstructed B Meson

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevLett.104.011802

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Improved limits on lepton flavor violating tau decays to l phi, l rho, l K* and l anti-K*

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0904.0339 [hep-ex]

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0904.2112 [hep-ex]

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Measurement of the Branching Fraction and anti-Lambda Polarization in B0 \rightarrow anti-Lambda p pi-

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0904.4724 [hep-ex]

DOI: 10.1103/PhysRevD.79.112009

Published in: Phys.Rev.D 79 (2009), 112009

Search for Second-Class Currents in tau- \rightarrow omega pi- nu(tau)

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0904.3080 [hep-ex]

DOI: 10.1016/j.nuclphysbps.2009.03.021 , 10.1103/PhysRevLett.103.041802

Published in: Phys.Rev.Lett. 103 (2009), 041802

Search for the Rare Leptonic Decays B+ \rightarrow l+ nu(l) (l=e,mu)

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0903.1220 [hep-ex]

DOI: 10.1103/PhysRevD.79.091101

Published in: Phys.Rev.D 79 (2009), 091101

Exclusive Initial-State-Radiation Production of the D anti-D, D* anti-D*, and D* anti-D* Systems

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0903.1597 [hep-ex]

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DOI: 10.1103/PhysRevLett.103.161801

Published in: Phys.Rev.Lett. 103 (2009), 161801

Observation of Multiple Volume Reflection of Ultrarelativistic Protons by a Sequence of Several Bent Silicon Crystals

W. Scandale (CERN), A. Vomiero (INFN, Brescia), S. Baricordi (INFN, Ferrara and Ferrara U.), P. Dalpiaz (INFN, Ferrara and Ferrara U.), M. Fiorini (INFN, Ferrara and Ferrara U.) et al.

DOI: 10.1103/PhysRevLett.102.084801

Published in: Phys.Rev.Lett. 102 (2009), 084801

Measurement of the Semileptonic Decays $B \rightarrow D \tau^- \bar{\nu}(\tau)$ and $B \rightarrow D^* \tau^- \bar{\nu}(\tau)$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0902.2660 [hep-ex]

DOI: 10.1103/PhysRevD.79.092002

Published in: Phys.Rev.D 79 (2009), 092002

Dalitz Plot Analysis of $B^{+-} \rightarrow \pi^+ \pi^+ \pi^-$ Decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0902.2051 [hep-ex]

DOI: 10.1103/PhysRevD.79.072006

Published in: Phys.Rev.D 79 (2009), 072006

Measurement of Time-Dependent CP Asymmetry in $B^0 \rightarrow c \bar{c} K^{*0}$ Decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0902.1708 [hep-ex]

DOI: 10.1103/PhysRevD.79.072009

Published in: Phys.Rev.D 79 (2009), 072009

Search for Dimuon Decays of a Light Scalar in Radiative Transitions $\tau(3S) \rightarrow \gamma A^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0902.2176 [hep-ex]

Improved Measurement of $B^+ \rightarrow \rho^+ \rho^0$ and Determination of the Quark-Mixing Phase Angle α

BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.

e-Print: 0901.3522 [hep-ex]

DOI: 10.1103/PhysRevLett.102.141802

Published in: Phys.Rev.Lett. 102 (2009), 141802

Evidence for $B^+ \rightarrow \bar{K}^0 K^{*+}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0901.1223 [hep-ex]

DOI: 10.1103/PhysRevD.79.051102

Published in: Phys.Rev.D 79 (2009), 051102

Search for Lepton Flavor Violating Decays $\tau \rightarrow l^- K^0(s)$ with the BABAR Experiment

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0812.3804 [hep-ex]

DOI: 10.1103/PhysRevD.79.012004

Published in: Phys.Rev.D 79 (2009), 012004

Observation of B Meson Decays to ωK^* and Improved Measurements for $\omega \rho$ and ωf_0

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0901.3703 [hep-ex]
DOI: 10.1103/PhysRevD.79.052005
Published in: Phys.Rev.D 79 (2009), 052005

Experimental study of the radiation emitted by 180-GeV/c electrons and positrons volume-reflected in a bent crystal

W. Scandale (CERN), A. Vomiero (INFN, Brescia), S. Baricordi (INFN, Ferrara and Ferrara U.), P. Dalpiaz (INFN, Ferrara and Ferrara U.), M. Fiorini (INFN, Ferrara and Ferrara U.) et al.
DOI: 10.1103/PhysRevA.79.012903
Published in: Phys.Rev.A 79 (2009), 012903

Dalitz Plot Analysis of $B^- \rightarrow D^+ \pi^- \pi^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0901.1291 [hep-ex]
DOI: 10.1103/PhysRevD.79.112004
Published in: Phys.Rev.D 79 (2009), 112004

Observation of nuclear dechanneling for high-energy protons in crystals
W. Scandale (CERN), A. Vomiero (INFN, Brescia), S. Baricordi (INFN, Ferrara and Ferrara U.), P. Dalpiaz (INFN, Ferrara and Ferrara U.), M. Fiorini (INFN, Ferrara and Ferrara U.) et al.
DOI: 10.1016/j.physletb.2009.08.046
Published in: Phys.Lett.B 680 (2009), 129-132

Search for the Lepton-Flavor Violating Decays $\Upsilon_{3S} \rightarrow e^+ \mu^- \tau^+ \mu^-$ and $\Upsilon_{3S} \rightarrow \mu^+ \mu^- \tau^+ \mu^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0812.1021 [hep-ex]

Search for the decay $B^+ \rightarrow K^0(S) K^0(S) \pi^+$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0811.1979 [hep-ex]
DOI: 10.1103/PhysRevD.79.051101
Published in: Phys.Rev.D 79 (2009), 051101

Search for the $Z(4430)^-$ at BABAR
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0811.0564 [hep-ex]
DOI: 10.1103/PhysRevD.79.112001
Published in: Phys.Rev.D 79 (2009), 112001

A Search for $B^+ \rightarrow \ell^+ \nu_{\ell}$ Recoiling Against $B^0 \rightarrow D^0 \ell^+ \bar{\nu}_{\ell}$ X
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0809.4027 [hep-ex]

Measurement of the $e^+ e^- \rightarrow b \bar{b}$ cross section between $\sqrt{s} = 10.54\text{-GeV}$ and 11.20-GeV
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0809.4120 [hep-ex]
DOI: 10.1103/PhysRevLett.102.012001
Published in: Phys.Rev.Lett. 102 (2009), 012001

Measurements of the Semileptonic Decays $\text{anti-B} \rightarrow \text{D}^0 \text{ anti-}\nu$ and $\text{anti-B} \rightarrow \text{D}^{*0} \text{ anti-}\nu$
Using a Global Fit to $\text{D}^0 \text{ anti-}\nu$ Final States

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0809.0828 [hep-ex]

DOI: 10.1103/PhysRevD.79.012002

Published in: Phys.Rev.D 79 (2009), 012002

Evidence for $\text{X}(3872) \rightarrow \psi(2S) \gamma$ in $\text{B}^{\pm} \rightarrow \text{X}(3872) \text{K}^{\pm}$ decays, and a
study of $\text{B} \rightarrow \text{c} \bar{\text{c}} \gamma \text{K}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0809.0042 [hep-ex]

DOI: 10.1103/PhysRevLett.102.132001

Published in: Phys.Rev.Lett. 102 (2009), 132001

Measurement of time dependent CP asymmetry parameters in B^0 meson decays to $\omega \text{K}^0(\text{S})$,
 η' K^0 , and $\pi^0 \text{K}^0(\text{S})$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0809.1174 [hep-ex]

DOI: 10.1103/PhysRevD.79.052003

Published in: Phys.Rev.D 79 (2009), 052003

Time-Dependent and Time-Integrated Angular Analysis of $\text{B} \rightarrow \phi \text{Ks} \pi^0$ and $\text{B} \rightarrow \phi \text{K}^+ \pi^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.3586 [hep-ex]

DOI: 10.1103/PhysRevD.78.092008

Published in: Phys.Rev.D 78 (2008), 092008

Measurements of time-dependent CP asymmetries in $\text{B}^0 \rightarrow \text{D}^{(*)+} + \text{D}^{(*)-}$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.1866 [hep-ex]

DOI: 10.1103/PhysRevD.79.032002

Published in: Phys.Rev.D 79 (2009), 032002

Update of Time-Dependent CP Asymmetry Measurements in $\text{b} \rightarrow \text{c} \bar{\text{c}} \text{s}$ Decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.1903 [hep-ex]

Measurement of Branching Fractions and CP and Isospin Asymmetries in $\text{B} \rightarrow \text{K}^{*} \gamma$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.1915 [hep-ex]

Search for the highly suppressed decays $\text{B}^{\pm} \rightarrow \text{K}^{\pm} \pi^{\pm} \pi^{\mp}$ and $\text{B}^{\pm} \rightarrow \text{K}^{\pm} \pi^{\mp} \pi^{\pm}$

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0808.0900 [hep-ex]

DOI: 10.1103/PhysRevD.78.091102

Published in: Phys.Rev.D 78 (2008), 091102

Observation of $\text{B}^0 \rightarrow \chi(c_0) \text{K}^0$ and evidence for $\text{B}^+ \rightarrow \chi(c_0) \text{K}^{*+}$

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0808.1487 [hep-ex]

DOI: 10.1103/PhysRevD.78.091101
Published in: Phys.Rev.D 78 (2008), 091101

Measurement of the Branching Fractions of anti-B \rightarrow D^{**} l- anti- ν (l) Decays in Events Tagged by a Fully Reconstructed B Meson

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.0528 [hep-ex]

DOI: 10.1103/PhysRevLett.101.261802

Published in: Phys.Rev.Lett. 101 (2008), 261802

Evidence for B semileptonic decays into the charmed baryon Λ (c)⁺

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.0011 [hep-ex]

Search for $B \rightarrow K^{*} \bar{\nu}$ decays

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0808.1338 [hep-ex]

DOI: 10.1103/PhysRevD.78.072007

Published in: Phys.Rev.D 78 (2008), 072007

Dalitz Plot Analysis of $D_s^+ \rightarrow \pi^+ \pi^- \pi^+$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.0971 [hep-ex]

DOI: 10.1103/PhysRevD.79.032003

Published in: Phys.Rev.D 79 (2009), 032003

Measurement of the Branching Fractions of the Radiative Charm Decays $D^0 \rightarrow \text{anti-K}^0 \gamma$ and $D^0 \rightarrow \phi \gamma$

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0808.1838 [hep-ex]

DOI: 10.1103/PhysRevD.78.071101

Published in: Phys.Rev.D 78 (2008), 071101

Measurements of Branching Fractions for $B^{*+} \rightarrow \rho^+ \gamma$, $B^0 \rightarrow \rho^0 \gamma$, and $B^0 \rightarrow \omega \gamma$

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0808.1379 [hep-ex]

DOI: 10.1103/PhysRevD.78.112001

Published in: Phys.Rev.D 78 (2008), 112001

Study of the $\pi^+ \pi^- J/\psi$ Mass Spectrum via Initial-State Radiation at BABAR

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.1543 [hep-ex]

Measurement of CP-Violating Asymmetries in the $B^0 \rightarrow K^{*+} K^{*-} K^0_s$ Dalitz Plot

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.0700 [hep-ex]

Search for $B^+ \rightarrow \rho^+ K^0$ meson decay

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.0579 [hep-ex]

Measurement of the $B^+ \rightarrow \omega \ell^+ \nu$ and $B^+ \rightarrow \eta \ell^+ \nu$ Branching Fractions

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.3524 [hep-ex]

DOI: 10.1103/PhysRevD.79.052011

Published in: Phys.Rev.D 79 (2009), 052011

Measurement of Semileptonic B Decays into Orbitally-Excited Charmed Mesons

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.0333 [hep-ex]

DOI: 10.1103/PhysRevLett.103.051803

Published in: Phys.Rev.Lett. 103 (2009), 051803

Averages of b -Hadron and c -Hadron Properties at the End of 2007

Heavy Flavor Averaging Group • E. Barberio et al.

e-Print: 0808.1297 [hep-ex]

Search for $B^+ \rightarrow \mu^+ \nu \mu$ with inclusive reconstruction at BaBar

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0807.4187 [hep-ex]

Measurement of the Branching Fraction, Polarization, and CP Asymmetries in $B^0 \rightarrow \rho^0 \rho^0$ Decay, and Implications for the CKM Angle α

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0807.4977 [hep-ex]

DOI: 10.1103/PhysRevD.78.071104

Published in: Phys.Rev.D 78 (2008), 071104

Measurement of CP Asymmetries and Branching Fractions in $B^0 \rightarrow \pi^+ \pi^-$, $B^0 \rightarrow K^+ \pi^-$, $B^0 \rightarrow \pi^0 \pi^0$, $B^0 \rightarrow K^0 \pi^0$ and Isospin Analysis of $B \rightarrow \pi \pi$ Decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0807.4226 [hep-ex]

Measurement of branching fractions of B^0 decays to $K(1)(1270)^+ \pi^-$ and $K(1)(1400)^+ \pi^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0807.4760 [hep-ex]

Measurement of $|V_{cb}|$ and the form-factor slope for $\text{anti-}B \rightarrow D \ell \text{ anti-}\nu(\ell)$ decays on the recoil of fully reconstructed B mesons

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0807.4978 [hep-ex]

Measurements of $B(\text{anti-}B \rightarrow \Lambda(c)^+ \text{ anti-}p)$ and $B(B \rightarrow \Lambda(c)^+ \text{ anti-}p \pi^-)$ and Studies of $\Lambda(c)^+ \pi^-$ Resonances

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0807.4974 [hep-ex]

DOI: 10.1103/PhysRevD.78.112003

Published in: Phys.Rev.D 78 (2008), 112003

Study of the decay $D^+_s \rightarrow K^+ K^- e^+ \nu_e$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0807.1599 [hep-ex]

DOI: 10.1103/PhysRevD.78.051101

Published in: Phys.Rev.D 78 (2008), 051101

Measurement of Time-Dependent CP Asymmetry in $B^0 \rightarrow K^0_S \pi^0 \gamma$ Decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0807.3103 [hep-ex]

DOI: 10.1103/PhysRevD.78.071102

Published in: Phys.Rev.D 78 (2008), 071102

Measurement of the branching fractions of the color-suppressed decays $\bar{B}^0 \rightarrow D^0 \pi^0$, $D^{*0} \pi^0$, $D^0 \eta$, $D^{*0} \eta$, $D^0 \omega$, $D^{*0} \omega$, $D^0 \eta'$ and $D^{*0} \eta'$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.0697 [hep-ex]

Amplitude Analysis of the Decay $B^0 \rightarrow K^+ \pi^- \pi^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0807.4567 [hep-ex]

Measurement of $B(\tau^- \rightarrow \bar{K}^0 \pi^- \nu_\tau)$ using the BaBar detector

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.1121 [hep-ex]

DOI: 10.1016/j.nuclphysbps.2009.03.034

Published in: Nucl.Phys.B Proc.Suppl. 189 (2009), 193-198

Study of hadronic transitions between Upsilon states and observation of Upsilon(4S) \rightarrow eta Upsilon(1S) decay

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0807.2014 [hep-ex]

DOI: 10.1103/PhysRevD.78.112002

Published in: Phys.Rev.D 78 (2008), 112002

Measurement of Ratios of Branching Fractions and CP-Violating Asymmetries of $B^{\pm} \rightarrow D^{*\mp} K^{\pm}$ Decays

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0807.2408 [hep-ex]

DOI: 10.1103/PhysRevD.78.092002

Published in: Phys.Rev.D 78 (2008), 092002

Searches for B meson decays to phi phi, phi rho, phi f0(980), and f0(980) f0(980) final states

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0807.3935 [hep-ex]

DOI: 10.1103/PhysRevLett.101.201801

Published in: Phys.Rev.Lett. 101 (2008), 201801

Measurement of $D^0 - \bar{D}^0$ mixing from a time-dependent amplitude analysis of $D^0 \rightarrow K^+ \pi^- \pi^0$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0807.4544 [hep-ex]
DOI: 10.1103/PhysRevLett.103.211801
Published in: Phys.Rev.Lett. 103 (2009), 211801

Search for Invisible Decays of a Light Scalar in Radiative Transitions $\Upsilon_{3S} \rightarrow \gamma A_0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0808.0017 [hep-ex]

Search for Second-Class Currents in $\tau^- \rightarrow \omega \pi^- \nu_\tau$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0807.4900 [hep-ex]

Observation of the bottomonium ground state in the decay $\Upsilon_{3S} \rightarrow \gamma \eta_b$

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.
e-Print: 0807.1086 [hep-ex]

DOI: 10.1103/PhysRevLett.101.071801 , 10.1103/PhysRevLett.102.029901 (erratum)

Published in: Phys.Rev.Lett. 101 (2008), 071801, Phys.Rev.Lett. 102 (2009), 029901 (erratum)

Measurement of $B \rightarrow X \gamma$ Decays and Determination of $|V(td)/V(ts|$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0807.4975 [hep-ex]

DOI: 10.1103/PhysRevLett.102.161803

Published in: Phys.Rev.Lett. 102 (2009), 161803

Direct CP, Lepton Flavor and Isospin Asymmetries in the Decays $B \rightarrow K^{(*)} \ell^+ \ell^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0807.4119 [hep-ex]

DOI: 10.1103/PhysRevLett.102.091803

Published in: Phys.Rev.Lett. 102 (2009), 091803

Search for $B^0 \rightarrow K^{*+} K^{*-}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0806.4467 [hep-ex]

DOI: 10.1103/PhysRevD.78.051103

Published in: Phys.Rev.D 78 (2008), 051103

Observation and Polarization Measurements of $B^{\pm} \rightarrow \phi K_{1}^{\pm}$ and $B^{\pm} \rightarrow \phi K_{2}^{\pm}$

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.
e-Print: 0806.4419 [hep-ex]

DOI: 10.1103/PhysRevLett.101.161801

Published in: Phys.Rev.Lett. 101 (2008), 161801

Observation of $e^+ e^- \rightarrow \rho^+ \rho^-$ near $\sqrt{s} = 10.58$ -GeV

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0806.3893 [hep-ex]

DOI: 10.1103/PhysRevD.78.071103

Published in: Phys.Rev.D 78 (2008), 071103

Deflection of 400 GeV/c proton beam with bent silicon crystals at the CERN Super Proton Synchrotron

Walter Scandale (CERN), Alberto Carnera (INFN, Legnaro and Padua U.), Gianantonio Della Mea (INFN, Legnaro and Trento U.), Davide De Salvador (INFN, Legnaro and Padua U.), Riccardo Milan (INFN, Legnaro) et al.

DOI: 10.1103/PhysRevSTAB.11.063501

Published in: Phys.Rev.ST Accel.Beams 11 (2008), 063501

Measurements of $B \rightarrow \{\pi, \eta, \eta'\} \ell \nu_{\ell}$ Branching Fractions and Determination of $|V_{ub}|$ with Semileptonically Tagged B Mesons

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0805.2408 [hep-ex]

DOI: 10.1103/PhysRevLett.101.081801

Published in: Phys.Rev.Lett. 101 (2008), 081801

Constraints on the CKM angle γ in $B^0 \rightarrow \text{anti-}D^0(D^0) K^*0$ with a Dalitz analysis of $D^0 \rightarrow K(S) \pi^+ \pi^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0805.2001 [hep-ex]

DOI: 10.1103/PhysRevD.79.072003

Published in: Phys.Rev.D 79 (2009), 072003

Branching Fractions and CP-Violating Asymmetries in Radiative B Decays to $\eta K \gamma$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0805.1317 [hep-ex]

DOI: 10.1103/PhysRevD.79.011102

Published in: Phys.Rev.D 79 (2009), 011102

A Measurement of CP Asymmetry in $B \rightarrow s \gamma$ using a Sum of Exclusive Final States

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0805.4796 [hep-ex]

DOI: 10.1103/PhysRevLett.101.171804

Published in: Phys.Rev.Lett. 101 (2008), 171804

Measurement of the Mass Difference $m(B^0) - m(B^+)$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0805.0497 [hep-ex]

DOI: 10.1103/PhysRevD.78.011103

Published in: Phys.Rev.D 78 (2008), 011103

Observation of $B^+ \rightarrow b(1)^+ K^0$ and search for B-meson decays to $b(1)^0 K^0$ and $b(1) \pi^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0805.1217 [hep-ex]

DOI: 10.1103/PhysRevD.78.011104

Published in: Phys.Rev.D 78 (2008), 011104

Study of B-meson decays to $\eta(c) K^*$, $\eta(c)(2S) K^*$ and $\eta(c) \gamma K^*$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0804.1208 [hep-ex]

DOI: 10.1103/PhysRevD.78.012006

Published in: Phys.Rev.D 78 (2008), 012006

Evidence for CP violation in $B^0 \rightarrow J/\psi \pi^0$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0804.0896 [hep-ex]
DOI: 10.1103/PhysRevLett.101.021801
Published in: Phys.Rev.Lett. 101 (2008), 021801

Observation of $B^+ \rightarrow \eta \rho^+$ and search for B^0 decays to $\eta' \eta$, $\eta \pi^0$, $\eta' \pi^0$, and $\omega \pi^0$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0804.2422 [hep-ex]
DOI: 10.1103/PhysRevD.78.011107
Published in: Phys.Rev.D 78 (2008), 011107

Improved measurement of the CKM angle γ in $B^{\text{mp}} \rightarrow D^{(*)} K^{(*)\text{mp}}$ decays with a Dalitz plot analysis of D decays to $K^0_S \pi^+ \pi^-$ and $K^0_S K^+ K^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0804.2089 [hep-ex]
DOI: 10.1103/PhysRevD.78.034023
Published in: Phys.Rev.D 78 (2008), 034023

Angular Distributions in the Decays $B \rightarrow K^* l^+ l^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0804.4412 [hep-ex]
DOI: 10.1103/PhysRevD.79.031102
Published in: Phys.Rev.D 79 (2009), 031102

Study of B Meson Decays with Excited eta and eta-prime Mesons
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0804.0411 [hep-ex]
DOI: 10.1103/PhysRevLett.101.091801
Published in: Phys.Rev.Lett. 101 (2008), 091801

Measurement of the $\tau^- \rightarrow \eta \pi^- \pi^0 \nu_\tau$ Branching Fraction and a Search for a Second-Class Current in the $\tau^- \rightarrow \eta'(958) \pi^- \nu_\tau$ Decay
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0803.0772 [hep-ex]
DOI: 10.1103/PhysRevD.77.112002
Published in: Phys.Rev.D 77 (2008), 112002

Measurement of the Branching Fractions of the Rare Decays $B^0 \rightarrow D_s^* (\pi^+) \pi^-$, $B^0 \rightarrow D_s^* (\pi^+) \rho^-$, and $B^0 \rightarrow D_s^* (\pi^+) K^{*0}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0803.4296 [hep-ex]
DOI: 10.1103/PhysRevD.78.032005
Published in: Phys.Rev.D 78 (2008), 032005

Measurement of the Spin of the Xi(1530) Resonance
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0803.1863 [hep-ex]
DOI: 10.1103/PhysRevD.78.034008
Published in: Phys.Rev.D 78 (2008), 034008

Evidence for Direct CP Violation from Dalitz-plot analysis of $B^{\pm} \rightarrow K^{\pm} \pi^{\mp} \pi^{\pm}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0803.4451 [hep-ex]
DOI: 10.1103/PhysRevD.78.012004
Published in: Phys.Rev.D 78 (2008), 012004

A Study of $B \rightarrow X(3872) K$, with $X_{3872} \rightarrow J/\psi \pi^+ \pi^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0803.2838 [hep-ex]
DOI: 10.1103/PhysRevD.77.111101
Published in: Phys.Rev.D 77 (2008), 111101

Study of the Exclusive Initial-State-Radiation Production of the D anti-D System
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0710.1371 [hep-ex]

Measurement of CP observables in $B^{\pm} \rightarrow D^0_{CP} K^{\pm}$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0802.4052 [hep-ex]
DOI: 10.1103/PhysRevD.77.111102
Published in: Phys.Rev.D 77 (2008), 111102

Search for CP Violation in Neutral D Meson Cabibbo-suppressed Three-body Decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0802.4035 [hep-ex]
DOI: 10.1103/PhysRevD.78.051102
Published in: Phys.Rev.D 78 (2008), 051102

High-Efficiency Deflection of High-Energy Protons through Axial Channeling in a Bent Crystal
Walter Scandale (CERN), Alberto Vomiero (INFN, Brescia), Stefano Baricordi (INFN, Ferrara and Ferrara U.), Pietro Dalpiaz (INFN, Ferrara and Ferrara U.), Massimiliano Fiorini (INFN, Ferrara and Ferrara U.) et al.
DOI: 10.1103/PhysRevLett.101.164801
Published in: Phys.Rev.Lett. 101 (2008), 164801

Searches for the decays $B^0 \rightarrow \ell^{\pm} \tau^{\mp}$ and $B^{\pm} \rightarrow \ell^{\pm} \nu$ ($\ell=e, \mu$)
using hadronic tag reconstruction
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0801.0697 [hep-ex]
DOI: 10.1103/PhysRevD.77.091104
Published in: Phys.Rev.D 77 (2008), 091104

Volume reflection dependence of 400-GeV/c protons on the bent crystal curvature
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Double volume reflection of a proton beam by a sequence of two bent crystals

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Apparatus to study crystal channeling and volume reflection phenomena at the SPS H8 beamline

Walter Scandale (CERN), Ilias Efthymiopoulos (CERN), Dean A. Still (Fermilab), Alberto Carnera (Fermilab and Padua U.), Gianantonio Della Mea (INFN, Legnaro and Trento U.) et al.

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Measurement of the Decay $B^0 \rightarrow D^0 e^+ e^- \bar{\nu}_e$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0712.3493 [hep-ex]

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Measurement of $D^0 - \bar{D}^0$ mixing using the ratio of lifetimes for the decays $D^0 \rightarrow K^+ \pi^+$, $K^+ K^+$, and $\pi^+ \pi^+$

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A Measurement of the branching fractions of exclusive $B^0 \rightarrow D^{(*)} (\pi) \ell^+ e^- \bar{\nu}_e$ decays in events with a fully reconstructed B meson

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevLett.100.071802

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Search for CP violation in the decays $D^0 \rightarrow K^{\pm} K^{\mp}$ and $D^0 \rightarrow \pi^{\pm} \pi^{\mp}$
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Observation of $B^+ \rightarrow a(1)(1260) K^0$ and $B^0 \rightarrow a(1)(1260) K^+$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for the decay $B^+ \rightarrow K^+ \tau^+ \mu^- \nu_{\mu}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0708.3650 [hep-ex]
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Observation of $B^0 \rightarrow K^* \bar{K}^* 0$ and search for $B^0 \rightarrow K^* K^* 0$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of $\cos^2 \beta$ in $B^0 \rightarrow D^{(*)} h^0$ Decays with a Time-Dependent Dalitz Plot
Analysis of $D \rightarrow K^0_S \pi^+ \pi^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Evidence for charged B meson decays to $a^{\pm}(1)(1260) \pi^0$ and $a^0(1)(1260) \pi^{\pm}$
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Time-Dependent Analysis of the Decay $B^0 \rightarrow \rho^0 \rho^0$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Improved Measurement of Time-Dependent CP Asymmetries and the CP-Odd Fraction in the
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for $B \rightarrow u$ transitions in $B^{\pm} \rightarrow [K^{\pm} \pi^{\pm} \pi^0]$ (SD) K^{\pm}
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.76.111101
Published in: Phys.Rev.D 76 (2007), 111101

Measurements of Partial Branching Fractions for $\bar{B} \rightarrow X_u \ell \bar{\nu}$ and
Determination of $|V_{ub}|$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the Branching Fractions of Exclusive $\bar{B} \rightarrow D/D^* \pi \ell \bar{\nu}$
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Measurements of the Branching Fractions of $B^0 \rightarrow K^0 K^+ K^-$, $B^0 \rightarrow K^0 \pi^+ K^-$,
 $B^0 \rightarrow K^0 K^+ \pi^-$, and $B^0 \rightarrow K^0 \pi^+ \pi^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of The Time-Dependent CP Asymmetry in $B^0 \rightarrow K^0 \gamma$ Decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0708.1614 [hep-ex]

Study of Resonances in Exclusive B Decays to anti-D(*) D(*) K

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0708.1565 [hep-ex]

DOI: 10.1103/PhysRevD.77.011102

Published in: Phys.Rev.D 77 (2008), 011102

A Search for $B^+ \rightarrow \tau^+ \nu$ with Hadronic B tags

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 77 (2008), 011107

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.77.039903 , 10.1103/PhysRevD.77.019904 ,

10.1103/PhysRevD.77.011101

Published in: Phys.Rev.D 77 (2008), 011101

Evidence for $b \rightarrow d \gamma$ Transitions From a Sum of Exclusive Final States in the Hadronic Final State Mass Range $1.0\text{-GeV}/c^2 < M(X(d)) < 1.8\text{-GeV}/c^2$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of branching fraction and CP asymmetries in $B^0 \rightarrow D^0_{CP} K^0$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0708.1534 [hep-ex]

Measurement of the $B^0 \rightarrow X(u) l^+ \nu(l)$ decays near the kinematic endpoint of the lepton spectrum and search for violation of isospin symmetry

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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The $e^+ e^- \rightarrow 2(\pi^+ \pi^-) \pi^0, 2(\pi^+ \pi^-) \eta, K^+ K^- \pi^+ \pi^- \pi^0$ and $K^+ K^- \pi^+ \pi^- \eta$ Cross Sections Measured with Initial-State Radiation

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Exclusive branching fraction measurements of semileptonic tau decays into three charged hadrons, $\tau^- \rightarrow \phi \pi^- \nu(\tau)$ and $\tau^- \rightarrow \phi K^- \nu(\tau)$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Study of $B^0 \rightarrow \pi^0 \pi^0$, $B^{\pm} \rightarrow \pi^{\pm} \pi^0$, and $B^{\pm} \rightarrow K^{\pm} \pi^0$ Decays, and Isospin Analysis of $B \rightarrow \pi \pi$ Decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.76.091102

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Angles from B decays with charm: Summary of working group 5 of the CKM Workshop 2006
Gianluca Cavoto (Rome U. and INFN, Rome), Robert Fleischer (CERN), Karim Trabelsi (KEK, Tsukuba), Jure Zupan (Ljubljana U. and Stefan Inst., Ljubljana)

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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The $e^+ e^- \rightarrow K^+ K^- \pi^+ \pi^-$, $K^+ K^- \pi^0 \pi^0$ and $K^+ K^- K^+ K^-$ cross-sections measured with initial-state radiation

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Averages of b -hadron properties at the end of 2006

Heavy Flavor Averaging Group (HFAG) Collaboration • E. Barberio et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 76 (2007), 031102

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Gianluca Cavoto (INFN, Rome)

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of CP Violation Parameters with a Dalitz Plot Analysis of $B^{\pm} \rightarrow D(\pi^+ \pi^-) K^{\pm}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0703037 [hep-ex]
DOI: 10.1103/PhysRevLett.99.251801
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Observation of CP violation in $B^0 \rightarrow K^{*+} \pi^{-}$ and $B^0 \rightarrow \pi^{*+} \pi^{-}$
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Measurement of the relative branching fractions of $\bar{B} \rightarrow D/D^*/D^{**} \ell^{\pm} \bar{\nu}$ (ℓ^{\pm}) decays in events with a fully reconstructed B meson
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Improved measurement of CP violation in neutral B decays to $c \bar{c} s$
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BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.
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Measurement of CP Asymmetries in $B^0 \rightarrow K^0_{S} K^0_{S} K^0_{S}$ Decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Published in: Phys.Rev.D 76 (2007), 091101

Observation of $B^{+} \rightarrow \rho^{+} K^0$ and Measurement of its Branching Fraction and Charge Asymmetry
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the $B^{\pm} \rightarrow \rho^{\pm} \pi^0$ Branching Fraction and Direct CP Asymmetry
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Published in: Phys.Rev.D 75 (2007), 091103

High-efficiency volume reflection of an ultrarelativistic proton beam with a bent silicon crystal
W. Scandale (CERN), D.A. Still (Fermilab), A. Carnera (INFN, Legnaro and Padua U. and Trento U. and INFN, Brescia), G. Della Mea (INFN, Legnaro and Padua U. and Trento U. and INFN, Brescia), D. De Salvador (INFN, Legnaro and Padua U. and Trento U. and INFN, Brescia) et al.
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Measurement of the $B^0 \rightarrow \pi^{-} \ell^{+} \nu$ form-factor shape and branching fraction, and determination of $|V_{ub}|$ with a loose neutrino reconstruction technique
BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.
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Evidence for $B^0 \rightarrow \rho^0 \rho^0$ decay and implications for the CKM angle α
BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.
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Branching fraction measurements of $B^{+} \rightarrow \rho^{+} \gamma$, $B^0 \rightarrow \rho^0 \gamma$, and $B^0 \rightarrow \omega \gamma$
BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.
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Measurements of CP-Violating Asymmetries in $B^0 \rightarrow a^{-(1)} \pi^0$ decays

BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.

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Observation of the Exclusive Reaction $e^+ e^- \rightarrow \phi \eta$ at $\sqrt{s} = 10.58$ -GeV

BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.

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Measurement of B Decays to $\phi K \gamma$

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Search for Lepton Flavor Violating Decays $\tau^+ \rightarrow \ell^+ \pi^0$, $\tau^+ \rightarrow \ell^+ \eta$, $\tau^+ \rightarrow \ell^+ \eta'$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Evidence of a broad structure at an invariant mass of 4.32 - GeV/c^2 in the reaction $e^+ e^- \rightarrow \pi^+ \pi^- \psi_{2S}$

measured at BaBar

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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A Structure at 2175 -MeV in $e^+ e^- \rightarrow \phi f_0(980)$ Observed via Initial-State Radiation

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Vector-tensor and vector-vector decay amplitude analysis of $B^0 \rightarrow \phi K^0$

BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.

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Branching fraction measurement of $B^0 \rightarrow D^{(*)} + \pi^{\pm}$, $B^{\pm} \rightarrow D^{(*)} 0 \pi^{\pm}$ and isospin analysis of $\bar{B} \rightarrow D^{(*)} \pi$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 75 (2007), 031101

Inclusive $\Lambda(c)^+$ Production in $e^+ e^-$ Annihilations at $s^{1/2} = 10.54$ -GeV and in $\Upsilon(4S)$ Decays

BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Observation of $B^{\pm} \rightarrow \phi \phi K^{\pm}$ and evidence for $B^0 \rightarrow \phi \phi K^0$ below η_c threshold

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Observation of CP violation in $B^0 \rightarrow \eta' K^0$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Improved Measurements of the Branching Fractions for $B^0 \rightarrow \pi^+ \pi^-$ and $B^0 \rightarrow K^+ \pi^-$, and a Search for $B^0 \rightarrow K^+ K^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 75 (2007), 012008

Measurement of the Branching Fraction and Time-Dependent CP Asymmetry in the Decay $B^0 \rightarrow D^{*+} D^{*-} K^0_s$

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Published in: Phys.Rev.D 74 (2006), 091101

Search for Charmonium States Decaying to $J/\psi \gamma \gamma$ Using Initial-State Radiation Events

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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Measurement of the $B^0 \rightarrow \Lambda^0 \bar{p} \pi^0$ Branching Fraction and Study of the Decay Dynamics

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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Measurement of the CP asymmetry and branching fraction of $B^0 \rightarrow \rho^0 K^0$

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Precise Branching Ratio Measurements of the Decays $D^0 \rightarrow \pi^- \pi^+ \pi^0$ and $D^0 \rightarrow K^- K^+ \pi^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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Search for Flavor-Changing Neutral-Current Charm Decays

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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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A Study of $\Xi(c)(2980)^+$ and $\Xi(c)(3077)^+$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurements of branching fraction, polarization, and charge asymmetry of $B^{\pm} \rightarrow \rho^{\pm} \rho^0$ and a search for $B^{\pm} \rightarrow \rho^{\pm} f_0(980)$

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Measurement of B Decays to $\phi K \gamma$

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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Published in: Phys.Rev.D 74 (2006), 091105

Measurement of CP-violating asymmetries in the $B^0 \rightarrow K^+ K^- K^0$ Dalitz plot

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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$\Xi(c)$ -prime production at BABAR

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Updated measurement of the CKM angle α using $B^0 \to \rho^+ \rho^-$ decays
BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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Measurement of the Mass and Width and Study of the Spin of the $\Xi(1690)^0$ Resonance from $\Lambda_c^+ \rightarrow \Lambda \bar{K}^0 K^+$ Decay at Babar
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Study of the Lepton Flavor Violating Decay $\tau^- \rightarrow \mu^- \eta$
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Measurements of branching fractions, polarizations, and direct CP-violation asymmetries in $B \rightarrow \rho K^*$ and $B \rightarrow f_0(980) K^*$ decays
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Improved measurement of CP asymmetries in $B^0 \rightarrow (\bar{c} s) K^{(*)0}$ decays
BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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Measurement of the relative branching fractions for $B^- \rightarrow D/D^*/D^{\{D^*\}} \pi^- \ell^- \bar{\nu}_\ell$ with a large sample of tagged B mesons
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Experimental apparatus to study crystal channeling in an external SPS beamline

Sergey V. Afanasev (Dubna, JINR), Alexander D. Kovalenko (Dubna, JINR), Alexander M. Taratin (Dubna, JINR), A.G. Afonin (Serpukhov, IHEP), Vladimir T. Baranov (Serpukhov, IHEP) et al.
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Measurements of CP-violating asymmetries in B decays to $\omega K_0(s)$
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Measurements of branching fractions, polarizations, and direct CP-violation asymmetries in $B \rightarrow \rho K^*$ and $B \rightarrow f_0(980) K^*$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

A Measurement of CP-violation parameters in B0 anti-B0 mixing using partially reconstructed D*-l+ nu(l) events at BaBar

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Branching fraction measurements of charged B decays to K*+ K+ K-, K*+ pi+ K-, K*+ K+ pi- and K*+ pi+ pi- final states

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0607113 [hep-ex]

DOI: 10.1103/PhysRevD.74.051104

Published in: Phys.Rev.D 74 (2006), 051104

Measurement of the CKM angle γ in $B^{\mp} \rightarrow D^{(*)} K^{\mp}$ decays with a Dalitz analysis of $D^0 \rightarrow K^0_S \pi^{\pm} \pi^{\pm}$

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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A Precision measurement of the D(s1)(2536) meson mass and decay width

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Study of inclusive B- and anti-B0 decays to flavor-tagged D, D(s) and Lambda+(c)

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Search for the decay of a B0 or anti-B0 meson to anti-K*0 K0 or K*0 anti-K0

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Search for the decay $B^0 \rightarrow K^0_S K^0_S K^0_L$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the spin of the Omega- hyperon at BABAR

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Observation of e+e- Annihilations into the C = +1 Hadronic Final States rho0 rho0 and phi rho0

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the $D^+ \rightarrow \pi^+ \pi^0$ and $D^+ \rightarrow K^+ \pi^0$ branching fractions

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 74 (2006), 011107

Search for the decay $B^0 \rightarrow a(1) + \rho^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0605024 [hep-ex]

DOI: 10.1103/PhysRevD.74.031104

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Search for doubly charmed baryons $\Xi(cc)^+$ and $\Xi(cc)^{++}$ in BABAR

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.74.011103

Published in: Phys.Rev.D 74 (2006), 011103

B meson decays to ωK^* , $\omega \rho$, $\omega \omega$, $\omega \phi$, and $\omega f(0)$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.74.051102

Published in: Phys.Rev.D 74 (2006), 051102

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BaBar Collaboration • Bernard Aubert (Beijing, Inst. High Energy Phys.) et al.

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Search for B Meson Decays to $\eta' \eta' K$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Dalitz plot analysis of the decay $B^{\pm} \rightarrow K^{\pm} K^{\pm} K^{\mp}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 74 (2006), 032003

Search for $B^+ \rightarrow \phi \pi^+$ and $B^0 \rightarrow \phi \pi^0$ Decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.74.011102

Published in: Phys.Rev.D 74 (2006), 011102

Study of $B \rightarrow D^{(*)} D^{(*)} (s) (J) (s)$ Decays and Measurement of D_{s1}^- and D_{s1} (2460) - Branching Fractions
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A Study of the $D^*(sJ)(2317)$ and $D(sJ)(2460)$ Mesons in Inclusive c anti- c Production Near $\sqrt{s} = 10.6$ -GeV
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Observation of Decays $B^0 \rightarrow D_{s1}^{(*)} + \pi^-$ and $B^0 \rightarrow D_{s1}^{(*)} - K^+$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of branching fractions and CP-violating charge asymmetries for B meson decays to $D^{(*)}$ anti- $D^{(*)}$, and implications for the CKM angle γ
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of $\bar{B}^0 \rightarrow D^{(*)} 0 \bar{K}^0$ branching fractions
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Observation of Upsilon(4S) decays to $\pi^+ \pi^-$ Upsilon(1S) and $\pi^+ \pi^-$ Upsilon(2S)
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for the decay $\tau^{\pm} \rightarrow 3 \pi^{\pm} 2 \pi^{\mp} \pi^0 \nu_{\tau}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the $B^{\pm} \rightarrow D^0 K^{*\mp}$ branching fraction
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of branching fractions in radiative B decays to $\eta K \gamma$ and search for B decays to $\eta' K \gamma$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurements of CP-violating asymmetries and branching fractions in B decays to ω K and $\omega \pi$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.74.011106
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The $e^+e^- \rightarrow 3(\pi^+ \pi^-)$, $2(\pi^+ \pi^- \pi^0)$ and $K^+ K^- 2(\pi^+ \pi^-)$ cross sections at center-of-mass energies from production threshold to 4.5-GeV measured with initial-state radiation

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurements of the $B \rightarrow D^{*}$ form-factors using the decay $\bar{B}^0 \rightarrow D^{*+} e^- \bar{\nu}_e$ electron-neutrino

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Measurement of time-dependent CP asymmetries in $B^0 \rightarrow D^{(*)} \pi^+$ and $B^0 \rightarrow D^{*} \rho^+$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurements of the branching fractions and CP-asymmetries of $B^{\{-\}} \rightarrow D^0_{CP} K$ decays
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A search for the rare decay $B^0 \rightarrow \tau^+ \tau^-$ at BABAR
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Search for the W^- exchange decays $B^0 \rightarrow D_s^{(*)} - D_s^{(*)} +$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the inclusive electron spectrum in charmless semileptonic B decays near the kinematic endpoint and determination of $|V(ub)|$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 73 (2006), 012006

Measurement of branching fractions and resonance contributions for $B^0 \rightarrow \bar{D}^0 K^+ \pi^-$ and search for $B^0 \rightarrow D^0 K^+ \pi^-$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurements of the $B \rightarrow X_s \gamma$ branching fraction and photon spectrum from a sum of exclusive final states

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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A study of $b \rightarrow c$ and $b \rightarrow u$ interference in the decay $B^- \rightarrow (K^+ \pi^-) D K^{*-}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Improved measurements of branching fractions for $B^0 \rightarrow \pi^+ \pi^-$, $B^0 \rightarrow \pi^+ \pi^- \pi^0$, and search for $B^0 \rightarrow K^+ K^-$ at BABAR

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurements of neutral B decay branching fractions to $K^0_S \pi^+ \pi^-$ final states and the charge asymmetry of $B^0 \rightarrow K^{*+} \pi^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Search for lepton flavor violation in the decay $\tau^{\pm} \rightarrow e^{\pm} \gamma$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the branching ratios $\Gamma(D_s^{*+} \rightarrow D_s^+ \pi^0) / \Gamma(D_s^{*+} \rightarrow D_s^+ \gamma)$ and $\Gamma(D^{*0} \rightarrow D^0 \pi^0) / \Gamma(D^{*0} \rightarrow D^0 \gamma)$

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Published in: Phys.Rev.D 72 (2005), 091101

Measurement of the \overline{B}^0 lifetime and the B^0 oscillation frequency using partially reconstructed $\overline{B}^0 \rightarrow D^{*+} \ell \bar{\nu}_\ell$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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An amplitude analysis of the decay $B^{\pm} \rightarrow \pi^{\pm} \pi^{\pm} \pi^{\mp}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.72.052002

Published in: Phys.Rev.D 72 (2005), 052002

Measurement of the $B^0 \rightarrow \pi^{\pm} \ell^+ \nu$ and $B^+ \rightarrow \pi^0 \ell^+ \nu$ branching fractions and determination of $|V_{ub}|$ in $\epsilon_{4S} \rightarrow B \bar{B}$ events tagged by a fully reconstructed B meson

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0507085 [hep-ex]

Measurement of the time-dependent CP-violating asymmetry in $B^0 \rightarrow K^0_S \pi^0 \gamma$ decays

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Measurement of the Branching Fraction of B^0 Meson Decay to $a(1)+(1260) \pi^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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A Study of production and decays of Omega0(c) baryons at BaBar
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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 K^0_{S} decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A precision measurement of the Λ_c^+ baryon mass
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of CP-violating parameters in fully reconstructed $B \rightarrow D^{(*)} \pi^+ \pi^-$ and $B \rightarrow D^{\pm} \rho^{\mp}$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.72.051102

Published in: Phys.Rev.D 72 (2005), 051102

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.72.071103

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Study of $J/\psi \pi^+ \pi^-$ states produced in $B^0 \rightarrow J/\psi \pi^+ \pi^- K^0$ and $B^- \rightarrow J/\psi \pi^+ \pi^- K^-$

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0507016 [hep-ex]

Measurement of the $B^{\pm} \rightarrow \rho^{\pm} \pi^0$ branching fraction and direct CP asymmetry

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0506069 [hep-ex]

Determination of $|V_{ub}|$ from measurements of the electron and neutrino momenta in inclusive semileptonic B decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0506036 [hep-ex]

DOI: 10.1103/PhysRevLett.95.111801 , 10.1103/PhysRevLett.97.019903 (erratum)

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Measurement of double charmonium production in e^+e^- annihilations at $\sqrt{s}=10.6$ GeV
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.72.031101

Published in: Phys.Rev.D 72 (2005), 031101

Branching fraction for $B^0 \rightarrow \pi^+ \ell^+ \nu$ and determination of $|V_{ub}|$ in
 $\Upsilon_{4S} \rightarrow B^0 \bar{B}^0$ events tagged by $\bar{B}^0 \rightarrow D^{(*)} + \ell^- \bar{\nu}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0506064 [hep-ex]

Measurement of time-dependent CP asymmetries and the CP-odd fraction in the decay $B^0 \rightarrow D^{*+} D^{*-}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0506082 [hep-ex]

DOI: 10.1103/PhysRevLett.95.151804

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Search for $B^{\pm} \rightarrow D_{S}^{(*)} \phi$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0506073 [hep-ex]

Search for lepton-flavor and lepton-number violation in the decay $\tau^- \rightarrow \ell \bar{\nu} h^{\prime}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0506066 [hep-ex]

DOI: 10.1103/PhysRevLett.95.191801

Published in: Phys.Rev.Lett. 95 (2005), 191801

Branching fraction for $B^{*+} \rightarrow \pi^0 \ell^+ \nu$, measured in $\Upsilon_{4S} \rightarrow B \bar{B}$
events tagged by $B^{\pm} \rightarrow D^0 \ell^{\pm}$ anti- ν (X) decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0506065 [hep-ex]

Search for the decay $\tau^- \rightarrow 4\pi^- 3\pi^+ (\pi^0) \nu_{\tau}$

BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.

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Search for the rare decay $\overline{B}^0 \rightarrow D^{*0} \gamma$

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of time-dependent CP-violating asymmetries and constraints on $\sin(2\beta + \gamma)$ with partial reconstruction of $B \rightarrow D^{*\mp} \pi^{\pm}$ decays
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for $B \rightarrow J/\psi D$ decays
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Measurement of CP asymmetries in $B^0 \rightarrow \phi K^0$ and $B^0 \rightarrow K^+ K^- K^0_S$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Branching fraction and CP asymmetries of $B^0 \rightarrow K^0_S K^0_S K^0_S$
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Measurement of the $B^0 \rightarrow D^{*-} D_s^{*+}$ and $D_s^+ \rightarrow \phi \pi^+$ branching fractions
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Improved measurements of CP-violating asymmetry amplitudes in $B^0 \rightarrow \pi^+ \pi^-$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of branching fraction and Dalitz distribution for $B^0 \rightarrow D^{*0} K^0 \pi^0$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of branching fractions and charge asymmetries for exclusive B decays to charmonium

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Limit on the $B^0 \rightarrow \rho^0 \rho^0$ branching fraction and implications for the CKM angle α

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.Lett. 94 (2005), 131801

Search for a charged partner of the $X(3872)$ in the B meson decay $B \rightarrow X^- K^+$, $X^- \rightarrow J/\psi \pi^- \pi^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevLett.94.181802
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Measurement of the ratio $B(B^- \rightarrow D^{*0} K^-)/B(B^- \rightarrow D^{*0} \pi^-)$ and of the CP asymmetry of $B^- \rightarrow D^{*0}_{CP+} K^-$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Study of B^0 (anti- B^0) $\rightarrow \pi^0 \pi^0$, $B^{\pm} \rightarrow \pi^{\pm} \pi^0$ and $B^{\pm} \rightarrow K^{\pm} \pi^0$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the \bar{B}^0 lifetime and of the $B^0 \bar{B}^0$ oscillation frequency using partially reconstructed $\bar{B}^0 \rightarrow D^{*+} \ell^- \bar{\nu}_\ell (\ell^+)$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A Search for $B^+ \rightarrow \tau^+ \nu_{\tau}$ recoiling against $B^- \rightarrow D^0 \ell^- \bar{\nu}_{\ell}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of CP-violating asymmetries in $B^0 \rightarrow (\rho \pi)^0$ using a time-dependent Dalitz plot analysis

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for strange pentaquark production in $e^+ e^-$ annihilations at $\sqrt{s} = 10.58$ -GeV and in $\Upsilon(4S)$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of time-dependent CP-violating asymmetries in B^0 meson decays to η' K^0

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A Measurement of CP violating asymmetries in $B^0 \rightarrow f_0(980) K^0_S$ decays

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Measurement of the $B^0 \rightarrow K^0_S K^0_S K^0_S$ branching fraction

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of CP-violating parameters in fully reconstructed $B \rightarrow D^{(*)} \pi$ and $B \rightarrow D \rho$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0408059 [hep-ex]

Measurement of the branching fractions for the decays $B^0 \rightarrow D^{*-} p \bar{p} \pi^+$, $B^0 \rightarrow D^- p \bar{p} \pi^+$, $B^0 \rightarrow \bar{D}^0 p \bar{p}$ and $B^0 \rightarrow \bar{D}^0 p \bar{p}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0408035 [hep-ex]

Measurement of the $B^0 \rightarrow \phi K^0$ decay amplitudes

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A Search for the decay $B^+ \rightarrow K^+ \nu \bar{\nu}$

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Observation of B^0 meson decays to $a_1(1260) \pi^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Constraints on $r(B^0)$ and γ in $B^0 \rightarrow D^{(*)} K^0$ decays by a Dalitz analysis
of $D^0 \rightarrow K_{S^*} \pi^+ \pi^-$
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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with the BABAR detector
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Measurements of the branching fraction and CP-violating asymmetries of $B^0 \rightarrow K^0_S \pi^0$
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Search for decays of B^0 mesons into pairs of charged leptons: $B^0 \rightarrow e^+ e^-$, $B^0 \rightarrow \mu^+ \mu^-$, $B^0 \rightarrow e^+ \mu^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Searches for charmless decays $B^0 \rightarrow \eta \omega$, $B^0 \rightarrow \eta K^0$, $B^+ \rightarrow \eta \rho^+$, and $B^+ \rightarrow \eta' \pi^+$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0408058 [hep-ex]

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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$D^+ \rightarrow K^- K^+ \pi^+$ meson decays: A Search for CP violation and a measurement of the branching ratio
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A Search for the Θ^{*++} pentaquark in $B^+ \rightarrow p \bar{K}^+ \pi^+$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0408037 [hep-ex]

Search for the decay $B^0 \rightarrow K^{*+} \rho^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of neutral B decay branching fractions to $K^0_S \pi^+ \pi^-$ final states
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Search for the $D(sJ)^*(2632)^+$ at BABAR
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Measurements of CP asymmetries in the decay $B \rightarrow \phi K_S$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the inclusive electron spectrum in charmless semileptonic B decays near the kinematic endpoint and determination of $|V_{ub}|$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0408075 [hep-ex]

Search for $B \rightarrow \chi(\phi) K^{(*)}$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408033 [hep-ex]

Measurement of the $\overline{B}^0 \rightarrow D^{*+} \ell \bar{\nu}_\ell$ decay rate and $|V_{cb}|$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.71.051502

Published in: Phys.Rev.D 71 (2005), 051502

Search for the radiative penguin decays $B^{*+} \rightarrow \rho^+ \gamma$, $B^0 \rightarrow \rho^0 \gamma$, and $B^0 \rightarrow \omega \gamma$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevLett.94.011801

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Measurements of Λ_c branching fractions of Cabibbo-suppressed decay modes

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Partial reconstruction of $B^0 \rightarrow D^{*}(S) + D^{*-}$ decays and measurement of the $D_{s1} \rightarrow \phi \pi^+$ branching fraction

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408040 [hep-ex]

Search for an $X(3872)$ charged partner in the decay mode $X^{\pm} \rightarrow J/\psi \pi^{\pm} \pi^0$ in the B meson decays $B^0 \rightarrow X^{\pm} K^{\mp}$ and $B^{\pm} \rightarrow X^{\pm} K^0_S$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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A Study of $\bar{b} \rightarrow D^{(*)} \bar{K}^{(*)}$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408052 [hep-ex]

A Search for the rare decay $B^0 \rightarrow D_{s1} \rho^{\pm}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408029 [hep-ex]

Search for the decay $B^0 \rightarrow \rho^0 \rho^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408061 [hep-ex]

Search for $D^0 - \bar{D}^0$ mixing using semileptonic decay modes

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408066 [hep-ex]

DOI: 10.1103/PhysRevD.70.091102

Published in: Phys.Rev.D 70 (2004), 091102

Measurement of CP-asymmetries for the decays $B^{\pm} \rightarrow D_{CP}^0 K^{*\mp}$ with the BABAR detector

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408069 [hep-ex]

Measurement of the branching fractions for inclusive B^0 and \overline{B}^0 decays to flavor-tagged D^0 , D^0_s and Λ_c^0

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Amplitude analysis of $B^0 \rightarrow \pi^0 \pi^0 \pi^0$ and $B^0 \rightarrow K^0 \pi^0 \pi^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Evidence for $B^0 \rightarrow \rho^0 K^0_S$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Search for $b \rightarrow u$ transitions in $B^0 \rightarrow (\text{anti-}) D^0 K^0$ and $B^0 \rightarrow (\text{anti-}) D^0 K^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Study of $B \rightarrow u \ell \bar{\nu}_\ell$ decays on the recoil of fully reconstructed B mesons and determination of $|V_{ub}|$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Determination of $|V_{ub}|$ in inclusive semileptonic B meson decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurements of branching fractions and CP-violating asymmetries in B-meson decays to the charmless two-body states $K^0 \pi^+$, $\text{anti-}K^0 K^+$, and $K^0 \text{anti-}K^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408080 [hep-ex]

Measurement of the ratio $B(B^0 \rightarrow D^0 K^0) / B(B^0 \rightarrow D^0 \pi^0)$ and the CP-asymmetry of $B^0 \rightarrow D(CP^0) K^0$ decays with the BABAR detector

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.Lett. 93 (2004), 191801

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Study of the $\tau^- \rightarrow 3h^- 2h^+ \nu^- \tau$ decay

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the ratio of branching fractions of $\Xi(c)0$ decays to $\Xi^- \pi^+$ and to $\Omega^- K^+$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurements of γ and $\sin(2\beta) + \gamma$ with BaBar

G. Cavoto (Princeton U. and Rome U. and INFN, Rome)

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of α at the B-factory

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B meson decays to $\eta^{(\prime)} K^* \rho$, $\eta^{(\prime)} \rho$, $\eta^{(\prime)} \pi^0$,
 $\omega \pi^0$, and $\phi \pi^0$
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BaBar forward endcap RPCs
G. Cavoto (Princeton U., Plasma Physics Lab. and INFN, Rome and Rome U.)

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Study of $B^{\pm} \rightarrow J/\psi \pi^{\pm}$ and $B^{\pm} \rightarrow J/\psi K^{\pm}$ decays: Measurement of the ratio of branching fractions and search for direct CP violation

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A Measurement of the total width, the electronic width and the mass of the Upsilon(10580) resonance

BaBar Collaboration and PEP-II Machine Group • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Search for the B meson decay to eta-prime phi

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the $B^0 \rightarrow K^{*0} \gamma$ and $B^+ \rightarrow K^{*0} \gamma$ branching fractions

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Evidence for the rare decay $B \rightarrow K^* \ell \ell^+$ and measurement of the $B \rightarrow K \ell \ell^+$ branching fraction

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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A Search for $B^+ \rightarrow \mu^+ \nu_\mu$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: [hep-ex/0307026 \[hep-ex\]](#)

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Limits on $D^0 \bar{D}^0$ mixing and CP violation from the ratio of lifetimes for decay to $K^+ \pi^+$, $K^- K^+$ and $\pi^- \pi^+$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: [hep-ex/0306003 \[hep-ex\]](#)

DOI: [10.1103/PhysRevLett.91.121801](#)

Published in: *Phys.Rev.Lett.* 91 (2003), 121801

Search for the radiative decays $B \rightarrow \rho \gamma$ and $B^0 \rightarrow \omega \gamma$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0306038 [hep-ex]
DOI: 10.1103/PhysRevLett.92.111801
Published in: Phys.Rev.Lett. 92 (2004), 111801

Measurements of branching fractions and CP-violating asymmetries in $B^0 \rightarrow \rho^{\pm} h^{\pm} \mu^{\pm}$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0306030 [hep-ex]
DOI: 10.1103/PhysRevLett.91.201802
Published in: Phys.Rev.Lett. 91 (2003), 201802

Measurement of time-dependent CP asymmetries and the CP-odd fraction in the decay $B^0 \rightarrow D^{*+} D^{*-} K$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0306052 [hep-ex]
DOI: 10.1103/PhysRevLett.91.131801
Published in: Phys.Rev.Lett. 91 (2003), 131801

Measurement of the branching fractions for the exclusive decays of B^0 and B^+ to $\bar{D}^{(*)} D^{(*)} K$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0305003 [hep-ex]
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Published in: Phys.Rev.D 68 (2003), 092001

Search for $D^0 - \bar{D}^0$ mixing and a measurement of the doubly Cabibbo-suppressed decay rate in $D^0 \rightarrow K \pi$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0304007 [hep-ex]
DOI: 10.1103/PhysRevLett.91.171801
Published in: Phys.Rev.Lett. 91 (2003), 171801

Observation of a narrow meson decaying to $D_s^+ \pi^0$ at a mass of 2.32-GeV/c²
BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0304021 [hep-ex]
DOI: 10.1103/PhysRevLett.90.242001
Published in: Phys.Rev.Lett. 90 (2003), 242001

A Search for $B^{\pm} \rightarrow \tau^{\pm} \bar{\nu}$ recoiling against a fully reconstructed B
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0304030 [hep-ex]

A Search for the decay $B^{\pm} \rightarrow K^{\pm} \nu \bar{\nu}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0304020 [hep-ex]

Rare B decays into states containing a J/ψ meson and a meson with $s \bar{s}$ quark content
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0304014 [hep-ex]

DOI: 10.1103/PhysRevLett.91.071801
Published in: Phys.Rev.Lett. 91 (2003), 071801

Measurements of CP-violating asymmetries and branching fractions in B^0 meson decays to $\eta' K^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Rates, polarizations, and asymmetries in charmless vector-vector B decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0303020 [hep-ex]

Observation of B meson decays to $\omega \pi^+$, ωK^+ , and ωK^0

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0303040 [hep-ex]

Study of time-dependent CP asymmetry in neutral B^0 decays to $J/\psi \pi^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0303018 [hep-ex]
DOI: 10.1103/PhysRevLett.91.061802
Published in: Phys.Rev.Lett. 91 (2003), 061802

Measurements of the branching fractions and charge asymmetries of charmless three-body charged B^0 decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0304006 [hep-ex]
DOI: 10.1103/PhysRevLett.91.051801
Published in: Phys.Rev.Lett. 91 (2003), 051801

Observation of the decay $B^0 \rightarrow \pi^+ \pi^- \pi^0$, study of $B^0 \rightarrow K^+ \pi^- \pi^0$, and search for $B^0 \rightarrow \pi^0 \pi^0 \pi^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0303028 [hep-ex]
DOI: 10.1103/PhysRevLett.91.021801
Published in: Phys.Rev.Lett. 91 (2003), 021801

Measurement of the branching fraction and CP-violating asymmetries in neutral B^0 decays to $D^{*\mp} D^{\mp}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevLett.90.221801
Published in: Phys.Rev.Lett. 90 (2003), 221801

A Search for $B^+ \rightarrow \tau^+ \tau^-$ neutrino recoiling against $B^+ \rightarrow D^0 \ell^+ \bar{\nu}_\ell$ lepton anti-neutrino X^0

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Limits on the lifetime difference of neutral B mesons and on CP, T, and CPT violation in B0 anti-B0 mixing

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0303043 [hep-ex]

Evidence for $B^+ \rightarrow J/\psi p \overline{\Lambda}$ and search for $B^0 \rightarrow J/\psi p \bar{p}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Branching fractions in $B \rightarrow \phi h$ and search for direct CP violation in $B^{\pm} \rightarrow \phi K^{\pm}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0303029 [hep-ex]

Observation of B meson decays to $\eta \pi$ and ηK

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0303039 [hep-ex]

Measurements of the branching fractions of charged B decays to $K^+ \pi^- \pi^+$ final states

BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0303022 [hep-ex]

Measurement of $B^0 \rightarrow D_s^{(*)+} D^{*-}$ branching fractions and $B^0 \rightarrow D_s^{(*)+} D^{*-}$ polarization with a partial reconstruction technique

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the CKM matrix element $|V_{ub}|$ with $B \rightarrow \rho e \nu$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurements of branching fractions and CP-violating asymmetries in $B^0 \rightarrow \pi^+ \pi^-$, $K^+ \pi^-$, $K^+ K^-$ decays

$K^+ \pi^-$, $K^+ K^-$ decays

G. Cavoto (Princeton U. and Rome U.)

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Simultaneous measurement of the B^0 meson lifetime and mixing frequency with $B^0 \rightarrow D^{*-} \ell^+ \nu_\ell$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 67 (2003), 072002

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the branching fraction for inclusive semileptonic B meson decays
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the $B^0 \rightarrow D^{*-} a_1(1)$ branching fraction with partially reconstructed D^{*+}
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A Search for the decay $B^0 \rightarrow \pi^0 \pi^0$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A Study of time dependent CP asymmetry in $B^0 \rightarrow J/\psi \pi^0$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the CKM matrix element $|V(\text{ub})|$ with charmless exclusive semileptonic B meson decays at BABAR

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the CP-violating asymmetry amplitude $\sin 2\beta$

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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$B \rightarrow s \gamma$ using a sum of exclusive modes

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Evidence for the flavor changing neutral current decays $B \rightarrow K \ell^+ \ell^-$ and $B \rightarrow K^* \ell^+ \ell^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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e-Print: hep-ex/0207065 [hep-ex]

Measurements of charmless two-body charged B decays with neutral pions and kaons

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurements of the branching fractions of charmless three-body charged B decays

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Rare B decays to states containing a J / ψ meson

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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A Measurement of the neutral B meson lifetime using partially reconstructed $B^0 \rightarrow D^{*-} \pi^+$ decays

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Measurement of the branching fraction and CP content for the decay $B^0 \rightarrow D^{*+} D^{*-}$

BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.

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Measurement of the B^0 lifetime with partially reconstructed $B^0 \rightarrow D^{*-} \ell^+ \nu_{\ell}$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevLett.88.231801

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Published in: Phys.Rev.D 65 (2002), 091104

Measurements of Branching Ratios and CP violating asymmetries in $B \rightarrow \pi^+ \pi^-$ and $B \rightarrow K^{\pm} \pi^{\mp}$ decays with the BaBar experiment

G. Cavoto (U. Rome La Sapienza (main))

Search for the rare decays $B \rightarrow K \ell^+ \ell^-$ and $B \rightarrow K^* \ell^+ \ell^-$

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A study of time dependent CP-violating asymmetries and flavor oscillations in neutral B decays at the $\Upsilon(4S)$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the $B^0 - \overline{B}^0$ oscillation frequency with inclusive dilepton events

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Measurement of the branching fractions for $\psi(2S) \rightarrow e^+e^-$ and $\psi(2S) \rightarrow \mu^+ \mu^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 65 (2002), 031101

Measurement of $B^0 - \overline{B}^0$ flavor oscillations in hadronic B^0 decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Search for direct CP violation in quasi two-body charmless B decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the branching fraction for $B^+ \rightarrow K^0 \pi^+$
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Search for B decays into K^0 anti- K^0
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Study of $B^0 \rightarrow D^{(*)} \bar{D}^{(*)}$ decays with the BaBar detector
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for a lifetime difference in D^0 decays
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Measurement of the B^0 and B^+ meson lifetimes with fully reconstructed hadronic final states

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Study of $B^{\pm} \rightarrow J/\psi \pi^{\pm}$ and $B^{\pm} \rightarrow J/\psi K^{\pm}$ decays: Measurement of the ratio of branching fractions and search for direct CP-violating charge asymmetries

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.65.091101

Published in: Phys.Rev.D 65 (2002), 091101

Investigation of $B \rightarrow D^{(*)} \bar{D}^{(*)} K$ decays with the BaBar detector

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0107056 [hep-ex]

Search for the decay $B^0 \rightarrow \gamma \gamma$

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Measurement of the B0 anti-B0 oscillation frequency in hadronic B0 decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Observation of CP violation in the B^0 meson system

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of branching fractions for exclusive B decays to charmonium final states

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Study of CP violating asymmetries in $B \rightarrow \pi^+ \pi^- \pi^0$, $B \rightarrow \pi^+ \pi^- K^0$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the B0 meson properties using partially reconstructed B0 to D*- pi+ and B0 to D*-
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Violazione di CP a BaBar: analisi di isospin per l'estrazione di $\sin(2\alpha)$
G. Cavoto (U. Rome La Sapienza (main))

