

CURRICULUM VITAE ET STUDIORUM

Ai fini della pubblicazione - Rif. Codice concorso 2021PAA032 - D.R. n. 3533/2021 del 21.12.2021

Giancarlo de Gasperis

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Institutional address

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ResearcherID: [C-8534-2012](https://orcid.org/0000-0003-2899-2171)

Languages:

- Italian – mother tongue
- UK and American English – Written and spoken: very good

H-Index:

(Last update: February 2022)

More than 7000 citation in 105 refereed papers (data from ADS)

ADS:	52	N. of papers: 105	Total citations: 11237	Average citations: 107
Google Scholar:	57	N. of papers: 62	Total citations: 15983	Average citations: 259
ISI Web of Science:	49	N. of papers: 105	Total citations: 9571	Average citations: 79
Scopus:	45	N. of papers: 105	Total citations: 8167	Average citations: 67

Impact factors (from Clarivate Web of Science DataBase):

Total impact factor:	475
Average impact factor per publication:	4.5

H-Index (last 15 years):

(Last update: February 2022)

ISI Web of Science:	40	N. of papers: 83	Total citations: 5828	Average citations: 70
Scopus:	39	N. of papers: 92	Total citations: 4627	Average citations: 67

Impact Factors (from Clarivate Web of Science DataBase):

Total impact factor:	389
Average impact factor per publication:	4.7

Link to my papers on ADS:

[de Gasperis Giancarlo on ADS](#)

Education:

- **1997-2000** Ph.D. in Astronomy Università degli studi di Roma “La Sapienza” (Defended March 2001);
- **1986-1993** Physics degree *cum laude*, Università degli studi dell’Aquila (March 1993);
- **1981-1986** Secondary School Diploma at Liceo Scientifico Statale “Vitruvio Pollione” (Avezzano AQ) with marks 46/60.

Academic and research appointments:

- **1995-1996:** CNR Research grant for CMB studies
- **Mar-Dec 1997:** Visiting student with prof. J. Silk at the Berkeley Center for Astrophysics;
- **Jul-Sep 2004:** Visiting researcher with J. Borrill at the Lawrence Berkeley National Laboratory.
- **2001-2005:** Research grant at Physics Dept, Univ. di Roma "Tor Vergata".

Military duties:

- **Apr 1994-Jul 1995:** Compulsory military service:
 - **Apr-Sep:** Volunteered as AUC at the Anti-Aircraft Artillery Italian Army school;
 - **Sep-Nov:** Nominated NATO OF-1[b] (Sottotenente) – enrolled at the Army School for A.A. Radar Commander Section;
 - **Nov-Jul:** OF-1[b] with duties of Commander of A.A. Radar Section and Transmissions;
- **Jan 2002:** Nominated OF-1.

Position:

- **2006 – Today:** Permanent academic researcher at Physics Dept, Univ. di Roma "Tor Vergata" and aggregate professor.

Teaching activities:

Note: the quoted CFUs are the ones actually delivered by me, either as a lecturer or as co-lecturer – Courses with English names have been taught in English.

- **AA 2021-2022:**
 - Co-teacher of "Big Data, Machine Learning and Astrophysical data-sets"; Phys. Dept, Univ di Roma "Tor Vergata" – 2CFU
 - Co-Teacher - Digital Data Analysis: Phys. Dept, Univ di Roma "Tor Vergata" – 4CFU
 - Co-Teacher of Laboratorio di Calcolo numerico e Informatica; Phys. Dept, Univ di Roma "Tor Vergata" – 4CFU
- **AA 2020-2021:**
 - Teacher of "Astrophysics Laboratory"; Phys. Dept, Univ di Roma "Tor Vergata" – 8CFU
 - Teacher of "Astrophysical Techniques"; Phys. Dept, Univ di Roma "Tor Vergata" – 8CFU
 - Co-teacher of "Big Data, Machine Learning and Astrophysical data-sets"; Phys. Dept, Univ di Roma "Tor Vergata" – 2CFU
 - Co-Teacher - Digital Data Analysis: Phys. Dept, Univ di Roma "Tor Vergata" – 4CFU
 - Co-Teacher of Laboratorio di Calcolo numerico e Informatica; Phys. Dept, Univ di Roma "Tor Vergata" – 4CFU
- **AA 2019-2020:**
 - Teacher of "Astrophysics Laboratory"; Phys. Dept, Univ di Roma "Tor Vergata" – 8CFU
 - Co-Teacher - Digital Data Analysis: Phys. Dept, Univ di Roma "Tor Vergata" – 4CFU
 - Co-Teacher of Laboratorio di Calcolo numerico e Informatica; Phys. Dept, Univ di Roma "Tor Vergata" – 4CFU
- **AA 2018-2019:**
 - Co-Teacher - Digital Data Analysis: Phys. Dept, Univ di Roma "Tor Vergata" – 4CFU
 - Co-Teacher of Laboratorio di Calcolo numerico e Informatica; Phys. Dept, Univ di Roma "Tor Vergata" – 4CFU
- **AA 2017-2018:**
 - Co-Teacher - Digital Data Analysis: Phys. Dept, Univ di Roma "Tor Vergata" – 4CFU

- Co-Teacher of Laboratorio di Calcolo numerico e Informatica; Phys. Dept, Univ di Roma “Tor Vergata” – 4CFU
- **AA 2016-2017:**
 - Co-Teacher - Digital Data Analysis: Phys. Dept, Univ di Roma “Tor Vergata” – 4CFU
 - Co-Teacher of Laboratorio di Calcolo numerico e Informatica; Phys. Dept, Univ di Roma “Tor Vergata” – 4CFU
 - Teaching assistant - “Relativity and Cosmology” I; Phys. Dept, Univ di Roma “Tor Vergata”
 - Teaching assistant - “Relativity and Cosmology” II; Phys. Dept, Univ di Roma “Tor Vergata”
- **AA 2015-2016:**
 - Teacher of “Laboratorio di Astrofisica”; Phys. Dept, Univ di Roma “Tor Vergata” – 8CFU
 - Co-Teacher of Laboratorio di Calcolo numerico e Informatica; Phys. Dept, Univ di Roma “Tor Vergata” – 4CFU
 - Teaching assistant - “Relativity and Cosmology” I; Phys. Dept, Univ di Roma “Tor Vergata”
 - Teaching assistant - “Relativity and Cosmology” II; Phys. Dept, Univ di Roma “Tor Vergata”
- **AA 2014-2015:**
 - Teacher of “Laboratorio di Astrofisica”; Phys. Dept, Univ di Roma “Tor Vergata” – 8CFU
 - Co-Teacher of Laboratorio di Calcolo numerico e Informatica; Phys. Dept, Univ di Roma “Tor Vergata” – 4CFU
 - Teaching assistant - “Relativity and Cosmology” I; Phys. Dept, Univ di Roma “Tor Vergata”
 - Teaching assistant - “Relativity and Cosmology” II; Phys. Dept, Univ di Roma “Tor Vergata”
- **AA 2013-2014:**
 - Teacher of “Laboratorio di Astrofisica”; Phys. Dept, Univ di Roma “Tor Vergata” – 8CFU
 - Co-Teacher of Laboratorio di Calcolo numerico e Informatica; Phys. Dept, Univ di Roma “Tor Vergata” – 4CFU
 - Teaching assistant - “Relativity and Cosmology” I; Phys. Dept, Univ di Roma “Tor Vergata”
 - Teaching assistant - “Relativity and Cosmology” II; Phys. Dept, Univ di Roma “Tor Vergata”
- **AA 2012-2013:**
 - Co-Teacher of Laboratorio di Calcolo numerico e Informatica; Phys. Dept, Univ di Roma “Tor Vergata” – 4CFU
 - Teaching assistant - “Relativity and Cosmology” I; Phys. Dept, Univ di Roma “Tor Vergata”
 - Teaching assistant - “Relativity and Cosmology” II; Phys. Dept, Univ di Roma “Tor Vergata”
- **AA 2011-2012:**
 - Co-Teacher of Laboratorio di Calcolo numerico e Informatica; Phys. Dept, Univ di Roma “Tor Vergata” – 4CFU
 - Teaching assistant - “Relativity and Cosmology” I; Phys. Dept, Univ di Roma “Tor Vergata”
 - Teaching assistant - “Relativity and Cosmology” II; Phys. Dept, Univ di Roma “Tor Vergata”
- **AA 2010-2011:**
 - Co-Teacher of Laboratorio di Informatica 2; Phys. Dept, Univ di Roma “Tor Vergata” – 4CFU
 - Teaching assistant - “General physics”; Pharmacy, Univ di Roma “Tor Vergata”
- **AA 2009-2010:**
 - Teacher of “Laboratorio di Programmazione Strutturata”; Scienze e Tecnologie dei Media, Univ di Roma “Tor Vergata” – 6CFU
 - Co-Teacher of Laboratorio di Informatica 2; Phys. Dept, Univ di Roma “Tor Vergata” – 4CFU
 - Teaching assistant - “General physics”; Pharmacy, Univ di Roma “Tor Vergata”
- **AA 2008-2009:**
 - Teacher of “Laboratorio di calcolo per Fisica dell’atmosfera”; Phys. Dept, Univ di Roma “Tor Vergata” – 6CFU
 - Co-Teacher of Laboratorio di Informatica 2; Phys. Dept, Univ di Roma “Tor Vergata” – 4CFU
- **AA 2007-2008:**

- Teacher of “Laboratorio di calcolo per Fisica dell’atmosfera”; Phys. Dept, Univ di Roma “Tor Vergata” – 6CFU
- Co-Teacher of Laboratorio di Informatica 2; Phys. Dept, Univ di Roma “Tor Vergata” – 4CFU
- **AA 2006-2007:**
 - Teacher of “Laboratorio di calcolo per Fisica dell’atmosfera”; Phys. Dept, Univ di Roma “Tor Vergata” – 6CFU
 - Co-Teacher of Laboratorio di Informatica 2; Phys. Dept, Univ di Roma “Tor Vergata” – 4CFU
- **AA 2005-2006:**
 - Teacher of “Laboratorio di calcolo per Fisica dell’atmosfera”; Phys. Dept, Univ di Roma “Tor Vergata” – 6CFU

Invited lecturer:

- **AA 2019-2020:**
 - Lecturer for Master in BIG DATA, c/o il Dipartimento di Economia e Finanza dell'Università degli Studi di Roma "Tor Vergata": “Scientific Data Handling and Image Processing”;
- **AA 2015-2016:**
 - Lecturer for Master in BIG DATA, c/o il Dipartimento di Economia e Finanza dell'Università degli Studi di Roma "Tor Vergata": “Scientific Data Handling and Image Processing”.

Ph.D. activities and responsibilities:

- **2012 – 2018:** member of the Board of the Ph.D. School in Astronomy, Astrophysics and Space Science (Joint Ph.D. School of Sapienza University of Rome and Tor Vergata University) - see <http://www.phys.uniroma1.it/fisica/fisica/dottorato-astronomia/board-faculties>
- **2006-2012:** Member of the Board of Astronomy Ph.D. School of Tor Vergata University;

Supervisor of:

- Arpine Kozmanyany (XXXI Cycle- 2015/2019): “Cosmology with Sunyaev-Zel'dovich effect”
- Anna Silvia Baldi (XXXII Cycle - 2016/2019): “Astrophysics and cosmology with the Sunyaev-Zel'dovich effect towards clusters of galaxies”

External Ph. D. Examiner:

- **Mar. 2018:** Gabriel Foenard: “Inflight performance of the PILOT experiment”- Research Institute in Astrophysics and Planetology (IRAP) and Université de Toulouse 3 Paul Sabatier – Toulouse, FR

Teaching:

- **Jan. 2022** - Invited teacher for the first SWATNet Workshop on “Communicating Science”: “How to successfully communicate science: Posters, Talks and Papers”

Awards:

- **06/2020:** Abilitazione Scientifica Nazionale idoneità a professore associato per il settore 02/C1, SSD FIS/05 Astronomia e Astrofisica.
- **2010:** The Herschel and Planck (of which I have been team member) have been awarded the 2010 Grand Prix Spécial of the Astronautical and Aeronautical Association of France (see http://www.esa.int/spaceinimages/Images/2010/06/Herschel_and_Planck_win_the_AAAF_Grand_Prix_2010_award).
- **2009:** ASI Award for the contribution to the development of the Planck/LFI instrument.

Organization of workshops and schools:

- LOC of "String Theory and Inflation" - S.T.a.I. Uncovering Excellence Grant CUP E82I15000300005 - Dip. di Fisica Univ. di Roma "Tor Vergata, Sep. 2016;
- SOC of LXII Congresso SAIT: "L'astronomia multi-messenger: didattica, ricerca, cultura e sviluppo del territorio"; Teramo, May 2018.

Academic activity:

- Member of the evaluation board for several post-doc fellowships;
- Supervisor and co-supervisor of 11 bachelor theses and 12 master theses in Cosmology, CMB Data Analysis, numerical statistics and Montecarlo methods, on-ground validation and experimental tests of CMB telescopes, Space Weather:

Master theses:

- AA 2007-2008:
 - Alessio Traficante 110 *cum laude*
- AA 2011-2012:
 - Khan Muhammad Asad (Astromundus) 110/110
 - Cigdem Kanberoglu (Astromundus) 110/110
- AA 2012-2013:
 - Andrea Addazi 110/110
 - Vladimir Lukovic (Astromundus) 110 *cum laude*
- AA 2013-2014:
 - Balakrishna Sandeep Haridasu (Astromundus) 107/110
 - Alessandro Buzzelli 110 *cum laude*
- AA 2015-2015:
 - Arpine Kozmanyany (Astromundus) 110 *cum laude*
- AA 2015-2016:
 - Luca Di Mascolo 110 *cum laude*
 - Adriano Clementi 107/110
- AA 2018-2019:
 - Maria Cifaldi 108/110
- AA 2020-2021:
 - Simone Chierichini 110 *cum laude*

Bachelor theses:

- AA 2008-2009:
 - Andrea di Gennaro 91/110
- AA 2012-2013
 - Beatrice Baldelli 101/110
 - Firrotta Maurizio 91/110
- AA 2013-2014:
 - Luca Di Mascolo 110 *cum laude*
- AA 2014-2015:
 - Maria Cifaldi 92/110
- AA 2015-2016:
 - Elenia Pacetti 106/110
 - Enrico Porcelli 81/110
- AA 2016-2017:
 - Piermarco Giobbi 109/110
 - Giulia Piccirilli 106/110
- AA 2017-2018:
 - Elisa Di Mico 93/110

- AA 2018-2019:
 - **Gioacchino Mauri** 86/110
- External reviewer of 16 master theses in Planetology, Solar physics, Gravitational Physics, and Astrobiology;
- Internal referee of 8 Physics master students for their external stages;
- Deputy academic advisor for the European Astromundus program Erasmus+: Erasmus Mundus Joint Master Degree programme in Astronomy & Astrophysics and LOC for the Tor Vergata Node (<https://www.fisica.uniroma2.it/~tovastro/astromundus/>)

Research interests:

Short summary:

Starting as a theoretical cosmologist, and having cultivated a good understanding of the experimental part of CMB observations, I found my natural interests in the connection between theory and observational data, developing during my career a well-recognized expertise in the CMB data analysis panorama. For this reason, I have been part of medium and large collaborations, starting from BOOMERanG and Planck and, more recently, I am part of the LSPE and QUBIC collaboration. I have been able, thanks to both my knowledge of the applied statistics to data and my easiness in the lab work, to give essential contribution to non CMB-specific teams, either well connected (as PILOT, where I can exploit my interest in “foreground” studies) or, more in general, to other studies where my statistics, programming skills, data analysis, and physics skills has been proved essential.

Scientific interests keywords:

Theory:

- Cosmology;
- Cosmic Microwave Radiation;
- Large Scale Structure.
- Compact topology Universes

Data Analysis:

- Cosmic Structures analysis
- Cosmic Microwave Background Temperature and Polarisation
- Balloon and Satellite-borne experiments data analysis
- Data analysis pipeline for large data sets
- Statistical methods
- Noise estimation
- Map-making of CMB experiments
- CMB Power spectra estimation
- Systematic effects

Digital skills:

- Excellent mastering (and teacher) of programming languages:
 - Fortran 77-90-95-2008
 - Python 2.7 and 3.x
 - C
 - IDL
- Excellent knowledge of parallel programming in distributed memory systems: OpenMPI-MPICH;
- Proficient in parallel programming on shared memory systems: OpenMP;
- Proficient in LaTeX, MS Office suite;
- Operating systems:
 - Advanced Linux user and administration – proficient on quitting vim.

- MS Windows;
- Apple macOS

Personal skills:

- Empathic;
- Good relational skills;
- Great human capabilities;
- Very good and appreciated teaching abilities;
- Strong and recognized ability to attract students;
- Theoretical background with a knack to mess with experimental physics;
- Problem Solving;
- Adaptability;
- Critical thinking.

Current and past scientific collaborations and participation:

- Member of CAESAR (Comprehensive spAce wEather Studies for the ASPIS prototype Realization) since 2020 (CAESAR is an ambitious project to design, implement and populate the ASPIS database prototype, and use it to perform scientific case studies on Space Weather phenomena)
- Member of BINGO (Constraining Dark Energy using HI Intensity Mapping - <http://www.bingotelescope.org/en/>) collaboration since 2020;
- LSPE/SWIPE team member since 2015;
- LSPE/STRIP team member since 2015;
- QUBIC team member since 2016;
- PILOT Team member since 2016;
- Member of ASI/COSMOS collaboration from 2017 to 2020;
- CORE++ team member;
- PLANCK/LFI consortium team member from 1997 to 2012;
- BOOMERanG97, BOOMERanG and B2K3 team member;
- Herschel collaboration team member from 2008 to 2011
- I am in the INFN roma2 research team INDARK and INFN PD51: Fisica Astro-Particellare: Inflazione, materia oscura e struttura su grande scala dell'Universo;
- For two years I was member of the EU FP7-INFRASTRUCTURES-2012-1-of the Solar Physics Group of "Tor Vergata" Phys. Dept.;

Current and past scientific responsibilities:

- INFN Associate:
 - Local manager in the INFN-Roma2 team of QUBIC;
 - In the INFN-Roma2 team of Einstein Telescope as data analyst;
 - As LSPE/SWIPE team member, I am contributing to the data analysis and simulation pipeline, noise characterisation and map-making effort, CMB spectral analysis, and component separation.
 - In the LSPE/SWIPE team, I also support and coordinate the integration of the SWIPE test cryostat, Half-Wave Plate systematic effects characterisation and on-ground validation.
- In the CSES_02 project of the solar physics group of Phys. Dept. of "Tor Vergata" I am in charge of scientific support and software validation;
- In the BINGO collaboration I am co-coordinator of the Map-Making team;
- As LSPE/STRIP team member I am in the simulation pipeline WG, in charge of map-making validation;

- In the PILOT collaboration I am in the data analysis and simulation pipeline WG and co-leader of the Map-making activity.
- As CORE++ team member I contribute to the study of the effect of noise cross-correlation in the map-making pipeline and to the study of the effect of Peculiar velocities
- As member of PLANCK/LFI consortium: I have been core team leader of the noise characterisation and map-making algorithm validation WG of the LFI instrument;
- In the BOOMERanG97 BOOMERanG and B2K3 I was in the Italian data analysis pipeline of the experiment, involved in the characterisation of the raw timestream noise properties and systematics, responsible of the B2K3 IT map-making pipeline and CMB Temperature, polarisation and TP power spectra characterization.
- In the Herschel collaboration I was in the Data analysis team for the PACS (Photodetector Array Camera and Spectrometer) - an imaging photometer and medium resolution grating spectrometer and SPIRE (Spectral and Photometric Imaging Receiver) - an imaging photometer and an imaging Fourier transform spectrometer, contributing to the coordinating of the local Map-Making team.
- As member of the EU FP7-INFRASTRUCTURES-2012-1-of the Solar Physics Group of “Tor Vergata” Physics department I provided data analysis and software development support;
- Participant in the PRIN2009: “Metodi statistici avanzati per l'analisi della Cosmic Microwave Background radiation”;
- Participant in the PRIN2002: “Vincoli osservativi all'energia oscura da misure dell'anisotropia del fondo cosmico di microonde”;
- PI of SMODATA project (SiMulation and testing Of a CMB Polarization DATa Analysis Pipeline) Simulation and testing of LSPE/SWIPE and CORE simulation and data analysis pipeline; (CINECA award under the ISCRA initiative (25.000hrs CPU time)

Outreach and other activities:

Actively involved in the outreach initiatives of my department:

- Teacher in three edition of “Stage in Tor Vergata” initiative, part of “Piano Lauree Scientifiche” (PLS) for high school students – Editions 2013, 2019 and 2020
- In the local organizing team of 2018 (Lunar eclipse in Tor Vergata), 2019 (Luna50 Tor Vergata Event) and 2021 of “Serate astrofisiche per gli studenti di fisica” (see i.e. [serata astrofisica](#) for the latest edition) for eclipses, lunar, planet and star observations.

Publications on refereed journals:

1. Napolitano, G., Foldes, R., Camporeale, E., de Gasperis, G., Giovannelli, L., Paouris, E., et al. - 2022. "Parameter Distributions for the Drag-Based Modeling of CME Propagation" - *Space Weather*, 20, e2021SW002925 (in press).
2. Addamo, G., Ade, P. A. R., Baccigalupi, C., et al. - 2021, "The large scale polarization explorer (LSPE) for CMB measurements: performance forecast" - *Journal of Cosmology and Astroparticle Physics*, 2021, 008.
3. Gamboa Lerena, M. M., Scóccola, C. G., Ade, P., et al. - 2020, "Angular resolution at map level in the QUBIC instrument" - *Boletín de la Asociación Argentina de Astronomía La Plata Argentina*, 61B, 155.
4. Lamagna, L., Addamo, G., Ade, P. A. R., et al. - 2020, "Progress Report on the Large-Scale Polarization Explorer" - *Journal of Low Temperature Physics*, 200, 374.
5. Battistelli, E. S., Ade, P., Alberro, J. G., et al. - 2020, "QUBIC: The Q & U Bolometric Interferometer for Cosmology" - *Journal of Low Temperature Physics*, 199, 482.
6. Marnieros, S., Ade, P., Alberro, J. G., et al. - 2020, "TES Bolometer Arrays for the QUBIC B-Mode CMB Experiment" - *Journal of Low Temperature Physics*, 199, 955.
7. Di Marco, A., De Gasperis, G., Pradisi, G., & Cabella, P. - 2019, "Energy density, temperature, and entropy dynamics in perturbative reheating" - *Physical Review D*, 100, 123532.
8. Mangilli, A., Aumont, J., Bernard, J.-P., et al. - 2019, "The geometry of the magnetic field in the central molecular zone measured by PILOT" - *Astronomy and Astrophysics*, 630, A74.
9. Mennella, A., Ade, P., Amico, G., et al. - 2019, "QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer" - *Universe*, 5, 42.
10. de Bernardis, P., Ade, P., Amico, G., et al. - 2018, "QUBIC: Measuring CMB polarization from Argentina" - *Boletín de la Asociación Argentina de Astronomía La Plata Argentina*, 60, 107.
11. Remazeilles, M., Banday, A. J., Baccigalupi, C., et al. - 2018, "Exploring cosmic origins with CORE: B-mode component separation" - *Journal of Cosmology and Astroparticle Physics*, 2018, 023.
12. Natoli, P., Ashdown, M., Banerji, R., et al. - 2018, "Exploring cosmic origins with CORE: Mitigation of systematic effects" - *Journal of Cosmology and Astroparticle Physics*, 2018, 022.
13. Burigana, C., Carvalho, C. S., Trombetti, T., et al. - 2018, "Exploring cosmic origins with CORE: Effects of observer peculiar motion" - *Journal of Cosmology and Astroparticle Physics*, 2018, 021.
14. De Zotti, G., González-Nuevo, J., Lopez-Caniego, M., et al. - 2018, "Exploring cosmic origins with CORE: Extragalactic sources in cosmic microwave background maps" - *Journal of Cosmology and Astroparticle Physics*, 2018, 020.
15. Melin, J.-B., Bonaldi, A., Remazeilles, M., et al. - 2018, "Exploring cosmic origins with CORE: Cluster science" - *Journal of Cosmology and Astroparticle Physics*, 2018, 019.
16. Challinor, A., Allison, R., Carron, J., et al. - 2018, "Exploring cosmic origins with CORE: Gravitational lensing of the CMB" - *Journal of Cosmology and Astroparticle Physics*, 2018, 018.
17. Di Valentino, E., Brinckmann, T., Gerbino, M., et al. - 2018, "Exploring cosmic origins with CORE: Cosmological parameters" - *Journal of Cosmology and Astroparticle Physics*, 2018, 017.
18. Finelli, F., Bucher, M., Achúcarro, A., et al. - 2018, "Exploring cosmic origins with CORE: Inflation" - *Journal of Cosmology and Astroparticle Physics*, 2018, 016.
19. de Bernardis, P., Ade, P. A. R., Baselmans, J. J. A., et al. - 2018, "Exploring cosmic origins with CORE: The instrument" - *Journal of Cosmology and Astroparticle Physics*, 2018, 015.
20. Delabrouille, J., de Bernardis, P., Bouchet, F. R., et al. - 2018, "Exploring cosmic origins with CORE: Survey requirements and mission design" - *Journal of Cosmology and Astroparticle Physics*, 2018, 014.
21. Buzzelli, A., de Bernardis, P., Masi, S., Vittorio, N., & de Gasperis, G. - 2018, "Optimal strategy for polarization modulation in the LSPE-SWIPE experiment" - *Astronomy and Astrophysics*, 609, A52.

22. de Gasperis, G., Buzzelli, A., Cabella, P., de Bernardis, P., & Vittorio, N. - 2016, "Optimal cosmic microwave background map-making in the presence of cross-correlated noise" - *Astronomy and Astrophysics*, 593, A15.
23. Planck Collaboration, Ade, P. A. R., Aghanim, N., Arnaud, et al. - 2014, "Planck intermediate results. XIII. Constraints on peculiar velocities" - *Astronomy and Astrophysics*, 561, A97.
24. Planck Collaboration, Ade, P. A. R., Aghanim, N., Arnaud, et al. - 2013, "Erratum: Planck intermediate results (Corrigendum). V. Pressure profiles of galaxy clusters from the Sunyaev-Zeldovich effect" - *Astronomy and Astrophysics*, 558, C2.
25. Planck Collaboration, Ade, P. A. R., Aghanim, N., Alves, et al. - 2013, "Planck intermediate results. XII: Diffuse Galactic components in the Gould Belt system" - *Astronomy and Astrophysics*, 557, A53.
26. Planck Collaboration, Ade, P. A. R., Aghanim, N., Arnaud, et al. - 2013, "Planck intermediate results. XI. The gas content of dark matter halos: the Sunyaev-Zeldovich-stellar mass relation for locally brightest galaxies" - *Astronomy and Astrophysics*, 557, A52.
27. Planck Collaboration, Ade, P. A. R., Aghanim, N., Arnaud, et al. - 2013, "Planck intermediate results. X. Physics of the hot gas in the Coma cluster" - *Astronomy and Astrophysics*, 554, A140.
28. Planck Collaboration, Ade, P. A. R., Aghanim, N., Arnaud, et al. - 2013, "Planck intermediate results. IX. Detection of the Galactic haze with Planck" - *Astronomy and Astrophysics*, 554, A139.
29. Planck Collaboration, Ade, P. A. R., Aghanim, N., Arnaud, et al. - 2013, "Planck intermediate results. VIII. Filaments between interacting clusters" - *Astronomy and Astrophysics*, 550, A134.
30. Planck Collaboration, Ade, P. A. R., Aghanim, N., Argüeso, et al. - 2013, "Planck intermediate results. VII. Statistical properties of infrared and radio extragalactic sources from the Planck Early Release Compact Source Catalogue at frequencies between 100 and 857 GHz" - *Astronomy and Astrophysics*, 550, A133.
31. Planck Collaboration, Ade, P. A. R., Aghanim, N., Arnaud, et al. - 2013, "Planck intermediate results. VI. The dynamical structure of PLCKG214.6+37.0, a Planck discovered triple system of galaxy clusters" - *Astronomy and Astrophysics*, 550, A132.
32. Planck Collaboration, Ade, P. A. R., Aghanim, N., Arnaud, et al. - 2013, "Planck intermediate results. V. Pressure profiles of galaxy clusters from the Sunyaev-Zeldovich effect" - *Astronomy and Astrophysics*, 550, A131.
33. Planck Collaboration, Ade, P. A. R., Aghanim, N., Arnaud, et al. - 2013, "Planck intermediate results. IV. The XMM-Newton validation programme for new Planck galaxy clusters" - *Astronomy and Astrophysics*, 550, A130.
34. Planck Collaboration, Ade, P. A. R., Aghanim, N., Arnaud, et al. - 2013, "Planck intermediate results. III. The relation between galaxy cluster mass and Sunyaev-Zeldovich signal" - *Astronomy and Astrophysics*, 550, A129.
35. Planck Collaboration, AMI Collaboration, Ade, P. A. R., Aghanim, N., et al. - 2013, "Planck intermediate results. II. Comparison of Sunyaev-Zeldovich measurements from Planck and from the Arcminute Microkelvin Imager for 11 galaxy clusters" - *Astronomy and Astrophysics*, 550, A128.
36. Planck Collaboration, Aghanim, N., Arnaud, M., Ashdown, et al. - 2012, "Planck intermediate results. I. Further validation of new Planck clusters with XMM-Newton" - *Astronomy and Astrophysics*, 543, A102.
37. Planck Collaboration, Aghanim, N., Arnaud, M., Ashdown, et al. - 2011, "Planck early results. XXVI. Detection with Planck and confirmation by XMM-Newton of PLCK G266.6-27.3, an exceptionally X-ray luminous and massive galaxy cluster at $z \sim 1$ " - *Astronomy and Astrophysics*, 536, A26.
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Roma, March, 4th, 2022

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