

Luca Martinelli - Curriculum Vitæ

► EDUCATIONAL INFORMATION

- 1 Nov 2017 - Present** **PhD in Physics (XXXIII Cicle)**
University of “Roma Tre” - www.uniroma3.it
Thesis:
“From top anti-top cross section measurements to the top pole mass extraction and the MicroMegas upgrade project for the ATLAS experiment”, Advisor: G. Salamanna
- 28 Sep 2015 - 23 Oct 2017** **Master’s degree in Experimental Particle Physics (110/110 cum laude)**
University of Rome “La Sapienza” - www.uniroma1.it
Thesis:
“Study of the MicroMegas chambers performance for the upgrade of the ATLAS experiment at LHC”, Advisor: C. Bini
- 01 Oct 2011 - 25 Jun 2015** **Bachelor’s degree in Physics (99/110)**
University of Rome “La Sapienza” - www.uniroma1.it
Thesis:
“Il problema della Dark Matter e il modello del Dark Photon: l’esperimento PADME”, Advisor: P. Valente, Co-advisor: M. Raggi

► RESEARCH ACTIVITIES

My research activity focuses on the field of Experimental Physics of Elementary Particles and I am a member of the ATLAS collaboration.

- Gen 2017 - Present** **MicroMegas**
Involved in the construction of the MicroMegas (MM) chambers for the upgrade of the ATLAS experiment. Main analyser of the cosmic ray and test beam data collected to test the performances of the chambers. Involved to the simulation validation of the New Small Wheel.
- Oct 2018 - Present** **Top Physics**
Main analyser for the measurement of the top anti-top inclusive and differential cross section with lepton kinematics in the di-lepton channel using the 2015-2018 dataset at $\sqrt{s} = 13 \text{ TeV}$ collected by the ATLAS experiment.
- Nov 2019 - Nov 2020** **Muon CP Liaison for the ATLAS Top Working Group**
(the contact person for the Top Working Group in the Muon CP group)

► PAPERS AND CONFERENCES

- Co-author of 141 papers within the ATLAS Collaboration
- Co-author of 1 paper (external to the ATLAS Collaboration)
- Co-author of 1 proceeding

- 9 Apr 2019** **Speaker at IFAE 2019 (Incontri di Fisica delle Alte Energie)**
“Studio delle prestazioni delle camere MicroMegas di tipo SM1 per l’upgrade dello spettrometro a muoni nella regione in avanti dell’esperimento ATLAS ad LHC”.
- 19 Sep 2018** **Speaker at the 104th National Congress of the SIF (Società Italiana di Fisica)**
“Study of the impact of metal mesh on the performance of Micromegas detectors in the ATLAS experiment”.

► TEACHING EXPERIENCE

Oct 2019 - Jan 2020	Tutor of bachelor students in physics during the first course of General Physics at the University of Rome “Roma Tre”.
Mar 2019 - July 2019	Tutor of bachelor students in physics during the laboratory experiences of particle physics at the University of Rome “Roma Tre”.
1 Gen 2017 - 31 Oct 2017	Tutor of bachelor students in physics during the laboratory experiences of mechanics, thermodynamics, electronic circuits and optics at the University of Rome “La Sapienza”.

► OUTREACH EXPERIENCE

Mar 2019 - Present	Member of the “ScienzImpresa” team for the organization of outreach events for the general public and for primary and secondary schools.
27 Sep 2019	Guide to the stands of particle physics during “ La notte dei ricercatori ” organized at the Department of Mathematics and Physics, University of Roma Tre.
20 Mar 2019	Member of the Roma Tre team during the international educational event for high-school students (“ Masterclass ”) organized at the Department of Physics, University of Roma Tre.
06 Mar 2019	Member of the Roma Tre team during the educational event for high-school students (“ Masterclass ”) organized at the Department of Physics, University of Roma Tre.
15 Feb 2019	Guide to the stands of particle physics during “ Occhi su Marte ” organized at the Department of Physics, University of Roma Tre.
28 Sep 2018	Guide to the stands of particle physics during “ La notte dei ricercatori ” organized at the Department of Mathematics and Physics, University of Roma Tre.
28 Jun 2018	Author an outreach article on the Micromegas chambers for the ATLAS Italia website https://web.infn.it/atlas/caccia-ai-muoni-con-le-micromegas/
14 May 2018 - 16 May 2018	Member of the Rome team during the outreach event “ PINT of Science ”.
11 Apr 2018	Member of the Roma Tre team during the educational event for high-school students (“ Masterclass ”) organized at the Department of Physics, University of Roma Tre.
28 Feb 2018	Member of the Roma Tre team during the international educational event for high-school students (“ Masterclass ”) organized at the Department of Physics, University of Roma Tre.
23 Feb 2018	Guide to the stands of particle physics during “ Occhi sulla Luna ” organized at the Department of Physics, University of Roma Tre.
25 Sep 2015 - 21 Oct 2015	Guide at the public exhibit “La Scienza Illumina” at the University of Rome “La Sapienza”.

► AWARDS/POSITIONS

Jan 2020	CERN Associate position: to work on the NSW upgrade project and on the $t\bar{t}$ cross-section measurements - CERN, Geneva
Sep 2019	Collaboration Fellowship: Tutoring activities aimed at supporting the didactic of the bachelor students in physics - University of Rome “Roma Tre” - Mathematics and Physics Department.
Nov 2018	Collaboration Fellowship: Tutoring activities aimed at supporting the didactic laboratories of the bachelor students in physics - University of Rome “Roma Tre” - Mathematics and Physics Department.
Feb 2017	Excellence course of studies (in-depth activities for deserving students) - - University of Rome “La Sapienza” - Physics Department.
Jan 2017	Collaboration Fellowship: Tutoring activities aimed at supporting the didactic laboratories of the bachelor students in physics - University of Rome “La Sapienza” - Physics Department.