

Curriculum Vitae of Alessandro Melchiorri

I joined the staff of the Rome cosmology group as responsible of the theory and data analysis sector about ten years ago. I have been a team member of the BOOMERanG experiment, I participated to several major grants in Italy and Europe, I am currently Planck Scientist of the on-going Planck satellite mission (I have the rights of sign any future paper that will come out from this collaboration) and I coordinated the Italian theory/weak lensing group for the EUCLID satellite mission, recently approved by ESA and scheduled for launch in 2019. I organized several international meetings and schools, among them we can list the Galileo Galilei Institute in Florence in 2009 that gathered about 100 participants over three months with approximately a budget of about 100K euros and the “Enrico Fermi” School in Varenna on July 2013. My scientific activity is mainly focused on the field of CMB theory and data analysis. In the past ten years, I co-authored more than 200 papers published in international refereed journals (over 300 considering conference proceedings) with about 12000 citations according to the ADS/NASA database (13000 according to Google Scholar).

Education

Degree	Date	Institute	Supervisor
Diploma in Physics	28th March,1996	University of Rome, Sapienza	Prof. Nicola Vittorio
Doctor of Philosophy	20th March 2001	University of Rome, Sapienza	Prof. Nicola Vittorio

Scientific Employment

Position	Institute	Institution	Time
Undergrad Researcher	Physics Department	University of Rome, Sapienza, Italy	July 1995- March 1996
Assistant	Department of Theoretical Physics	University of Geneva, Switzerland	1997-1998
Post-doctoral Fellow	Physics Department	University of Oxford, UK	2000-2002
Lecturer	Physics Department	University of Rome, Sapienza, Italy	Nov 2002-2005
Senior Lecturer	Physics Department	University of Rome, Sapienza, Italy	2005-Now
Science Associate	Theory Section	CERN, Geneva, Switzerland	Oct-Dec 2007
Visiting Professor	Physics Department	UCI, California, USA	July-August 2010

International Collaborations

- Member of the BOOMERanG collaboration. Member of the Planck/LFI experiment (Planck Scientist). Member of the Euclid satellite mission proposal.

Grants

PI and CO-PI of the following projects :

Project Title	Year	Amount
PRIN (CO-PI)	2004	380K
WP2000-ASI Euclid (PI)	2011	36K
PRIN (CO-PI)	2006	278K
AST (Univ. Of Rome) (PI)	2008	10K
ASI (Italian Space Agency) (PI)	2006	36K
PRIN/INAF (PI)	2009	22K
GGI (PI)	2008	110K

Teaching Experience

Since ten years I teach Physical Cosmology (48 hours) for the students in the Astronomy and Astrophysics and Theoretical Physics at the University of Rome. I held for five years the introductory course in Physics for Informatics and Chemistry. I am currently teaching Astronomy (56 hours). I held several PhD course in cosmology Rome and Salerno and in several international schools in Palermo, Valencia, Mexico, Portugal.

Training of Students

Since 2003 I supervised about **50 undergraduate students** and **30 master students** at the University of Rome « Sapienza ».

I supervised **ten PhD** students whom all got postdoc positions after completing their studies in Rome in renowned institutions:

1. **Paolo Serra**, after completing his PhD on Neutrino Cosmology in 2009, got a postdoc position at University of California Irvine and AMES/NASA in Palo Alto. He is currently as a senior postdoc in Orsay, Paris.
2. **Francesco de Bernardis**, after completing his PhD, got a postdoc at UCI, California.
3. **Luca Pagano**, obtained his PhD in 2010 and moved to JPL/NASA as postdoc.
4. **Giulia Gubitosi**, obtained her PhD in 2010 and moved to University of Berkeley as a postdoc.
5. **Silvia Galli**, got her PhD in late 2011 and is now in Paris, IAP with a postdoc position.
6. **Erminia Calabrese**, got her PhD in late 2011 and is now in Oxford, UK with a postdoc position.
7. **Stefania Pandolfi**, got her PhD in late 2011 and is now in Copenhagen, DK with a postdoc position.
8. **Matteo Martinelli**, got his PhD in late 2011 and is now in SISSA, Italy with a postdoc position.
9. **Maria Archidiacono**, got her PhD in late 2012 and is now in Aarhus, DK with a postdoc position.
10. **Eloisa Menegoni**, got her PhD in late 2012 and is now in Heidelberg, Germany with a postdoc position.

I am currently supervising seven PhD students and five master students.

Scientific Adviser

Referee for Physical Review D, Physical Review Letters, Astrophysical Journal, Astronomy and Astrophysics, International Journal of Modern Physics D, Monthly Notices of the Royal Astronomical Society, Journal of Cosmology and Astroparticle Physics (JCAP), Classical and Quantum Gravity