



Dr. Andrea De Simone

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CURRICULUM VITÆ

Personal details

Born on 7th April 1982. Italian citizenship.

Professional Positions

- Feb 2012 – present Assistant Professor (tenured)
SISSA – International School for Advanced Studies, Trieste, Italy
- Oct 2012 – Sep 2013 Research Fellow (on leave of absence from SISSA)
CERN, Theory Division, Geneva, Switzerland
- Sep 2010 – Jan 2012 Post-doctoral Fellow
EPFL – École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland
- Aug 2006 – Jun 2010 Graduate Student
MIT – Massachusetts Institute of Technology, Cambridge MA, USA

Education and Degrees

- Jun 2010 **Ph.D.** in Physics
Massachusetts Institute of Technology (MIT), Cambridge MA, USA
Thesis title: “The measure problem in eternal inflation”
Advisor: Prof. Alan H. Guth.
- Jul 2007 Diploma *summa cum laude*
Scuola Normale Superiore, Pisa, Italy
- May 2006 Laurea Specialistica (M.Sc.) *summa cum laude* in Theoretical Physics
Pisa University, Italy
Thesis title: “Baryogenesis via Leptogenesis”
Advisors: Prof. Antonio Riotto and Prof. Riccardo Barbieri
- July 2004 Laurea (B.Sc.) in Physics, *summa cum laude*
Pisa University, Italy
Thesis title: “The Higgs phenomenon in Field Theory”
Advisor: Prof. Adriano Di Giacomo

Research Interests

- Astroparticle Physics and Cosmology: Dark Matter, Baryogenesis, Inflation.
- Particle physics beyond the Standard Model: Supersymmetry, Composite Higgs models, Collider phenomenology.

Professional Activities

- **Author** of a graduate-level book and of more than 40 scientific papers published in refereed journals (h -index=24).
- **Lecturer** of graduate-level courses at SISSA, teaching assistant for graduate students at EPFL and at MIT.
- **Speaker** at more than 15 invited seminars at universities and research institutes worldwide, more than 20 conferences and workshops attended upon invitation.
- **Referee** activity for several top-rank scientific journals:

Physical Review Letters	Physical Review D
Journal of Cosmology and Astroparticle Physics	Journal of High Energy Physics
The Astrophysical Journal	Annals of Physics
Classical and Quantum Gravity	General Relativity and Gravitation
Journal of Physics G	Monthly Notices of the Royal Astron. Society

Computing Skills

C, C++, Fortran, Mathematica, MATLAB, Python, R.