

CURRICULUM VITAE

Dr. Andrea Zanzi



FAMILY NAME: Zanzi
FIRST NAME: Andrea
BIRTHPLACE: Ferrara (Italy)
DATE OF BIRTH: April 10, 1979
NATIONALITY: Italian
MARITAL STATUS: Married, one daughter
ADDRESS: Dipartimento di Fisica e Scienze della Terra,
University of Ferrara (Italy)
EMAIL: zanzi@th.physik.uni-bonn.de
PHONE NUMBER: 0039-340-9029454

EDUCATION:

December 2003-March 2007: PhD in Physics at Padova University
(Supervisor: Prof. A. Masiero).

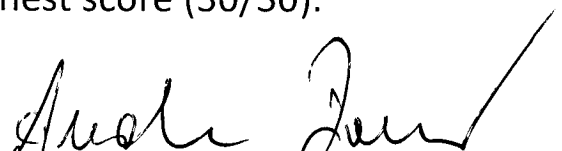
PhD thesis: *Aspects of the Dark Energy problem in brane theories.*

Fall 2003 - Padova University: I won the PhD competitive examination in Padova.

Fall 2003 - Scuola Normale Superiore (Pisa): I have been declared eligible for the PhD in Physics (perfezionamento classe di Scienze) with the general score 8/10.

July 2003: I graduated in Physics *cum laude* at Ferrara University discussing a thesis entitled "Asteroseismology and extrasolar planets" (Supervisors: Prof. G. Fiorentini and Prof. S.Ortolani).

September 1998 – July 2003: I passed all the examinations of the degree in Physics at Ferrara University with the highest score (30/30).



RESEARCH POSITIONS:

January-June 2009: I worked at College de France (Paris).

Supervisor: Prof. G.Veneziano.

November-December 2008: I worked at the Physics institute in Padova.

October 2006 – September 2008: I worked at the Physics Institute in Bonn (postdoctoral position). Supervisor: Prof. Hans-Peter Nilles.

TEACHING EXPERIENCE:

29 Apr 2014 - today: I am currently teaching the exercises of fluid mechanics and thermodynamics at the University of Ferrara (first year of the degree in Physics).

17 Mar 2014 – 26 Mar 2014: I taught mathematics at the high-school IPSSAR "O. Vergani" (Ferrara) as a substitute teacher.

22 Oct 2013 – 20 Nov 2013: I taught mathematics and physics at the high-school Liceo Classico "L. Ariosto" (Ferrara) as a substitute teacher.

14 Jan 2013 – 12 Mar 2013: I taught mathematics (as a substitute teacher) at the high-school IPSIA "Ercole I d'Este" Ferrara.

3 Oct 2012 – 6 Dec 2012: I taught physics at Istituto Istruzione Superiore "R. Brindisi", Lido degli Estensi (Ferrara) as a substitute teacher

20 Feb 2012 - 06 Mar 2012: I taught mathematics and physics at Liceo Scientifico in Codigoro (Ferrara) as a substitute teacher.

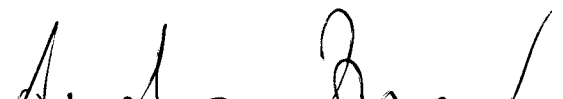
I gave private lectures on mathematics and physics (also in collaboration with educational centres and groups in Ferrara).

SUMMER SCHOOLS, WORKSHOPS AND SEMINARS:

- *Second European Summer School on Nuclear Astrophysics*, Catania, 28/09/03-05/10/03;
- *Eddington Workshop*, O.A.R., Monteporzio Catone, 17-18 Oct 2003.
- ISAPP 2004 - *International School on Astroparticle Physics (European Doctorate School)* – Laboratori Nazionali del Gran Sasso, Assergi (L'Aquila), 28 June- 9 July 2004.
- *XIII Seminario Nazionale di Fisica Teorica*, Parma 30 Aug 2004 - 4 Sept 2004.
- *11th International Workshop on Neutrino Telescopes*, Venezia, 22-25 Feb 2005.
- *Ecole d'Eté de Physique Theorique (Les Houches)* – Session LXXXIV,

Particle Physics Beyond the Standard Model, 1 Aug 2005 – 26 Aug 2005. During this summer school I held a seminar.

- *9th International Workshop on Particle Physics and the early Universe* – COSMO 05, Bonn 28/08/05-01/09/05.
- *ENTApP Workshop on Dark Matter*, SISSA, Trieste 19-20 Oct 2005.
- *IDAPP's two days meeting, International Doctorate on Astroparticle Physics*, Ferrara 12-13 May 2006.
- Summer Institute, *New trends in Particle Physics and Cosmology*, Sheffield 19-23 June 2006. During this summer school I held a seminar.
- *Workshop on Astroparticle and Cosmology*, Galilelo Galilei Institute for Theoretical Physics, Arcetri, Florence. 23 Oct – 8 Nov 2006. During this workshop I held a seminar.
- *RTN Winter School on Strings, Supergravity and Gauge Theories*. CERN, January 15- January 19, 2007.
- *LHC-D: Beyond the Standard Model*, Bonn 22-23 Feb 2007.
- *XIX Workshop beyond the Standard Model*. March 12-15 2007, Bad Honnef – Germany.
- *Kosmologietag*. April 26-27 2007, Bielefeld. During this workshop I held a seminar.
- *Planck 07*. June 9-13 Warsaw, Poland. During this meeting I held a seminar.
- *Pascos 07*. July 2-7 London, UK.
- *TRR33 meeting in Bad Honnef*. October 1-5 2007, Bad Honnef, Germany.
- *Dezember Symposium, DESY*. December 4-5 2007, Hamburg, Germany. During this meeting I held a seminar.
- *RTN Winter School*, CERN, Switzerland 21-25 Jan 2008.
- *XX Workshop. Beyond the Standard Model*. March 10-13, Bad Honnef, Germany. During this workshop I held a seminar
- *String Phenomenology and Dynamical Vacuum Selection*. March 27-29, Liverpool, UK. During this conference I held a seminar.
- *Planck 08*. May 19-23, Barcelona, Spain. During this meeting I held a seminar.
- I have been invited as speaker for a seminar at SISSA (*International School for Advanced Studies*), Trieste, 29 Mar 2006.
- I have been invited as speaker for a seminar at Physikalisches



Institut, Bonn, 13 June 2006.

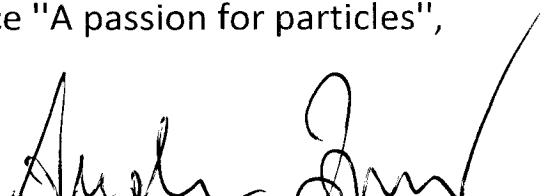
- I held the following Tuesday-seminars in Bonn:

a. 28 November 2006 - Moduli Stabilization and the Cosmological Constant problem.

b. 6 February 2007 - Introduction to Chameleon Gravity

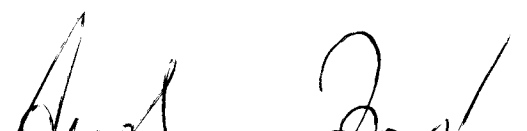
c. 6 November 2007 - Fluxes, Gaugino Condensates and Moduli Stabilization in Meta-stable Heterotic Vacua.

- I held a seminar at SISSA (*International School for Advanced Studies*), Trieste, 30 Nov 2007.
- 7-11 Jan 2008: I visited the Institute of Theoretical Physics in Heidelberg and I held a seminar.
- I held a seminar in Bonn, 8 May 2008.
- I held a seminar ("Pheno-Coffee") in Padova, 25 Nov 2008.
- *Workshop on supersymmetry, quantum gravity and gauge fields*, Scuola Normale Superiore, Pisa. September 12-14, 2012.
- I have been invited to give a seminar at Dipartimento di Fisica in Ferrara (Italy). I held the seminar on January 9, 2013.
- I have been invited to give a seminar at Scuola Normale Superiore, Pisa (Italy). I held the seminar on February 26, 2013.
- 18-21 Mar 2013. I attended the lectures at the workshop "Higher spins, strings and duality" at the Galileo Galilei Institute for Theoretical Physics in Arcetri, Florence.
- 16-19 Apr 2013. I visited the Arnold Sommerfeld Center for Theoretical Physics in Munich and I held a seminar.
- 28 May 2013. I held a seminar at Centre de Physique Theorique (Ecole Polytechnique) in Paris.
- 19-22 Aug 2013. I visited CERN.
- Sep-Oct 2013. I attended various lectures and seminars at the workshop "Geometry of strings and fields" (Galileo Galilei Institute – Florence).
- 01-04 Oct 2013. I visited CERN.
- 19-20 Dec 2013. I attended the conference "A passion for particles", Scuola Normale Superiore, Pisa.



Scientific Papers:

- 1) A. Zanzi
"Neutrino Dark Energy and Moduli Stabilization in a BPS Braneworld Scenario",
Phys. Rev. D73 (2006) 124010.
- 2) V. Loewen, H.P. Nilles, A. Zanzi
"Gaugino condensation with a doubly suppressed gravitino mass",
Phys. Rev. D78 (2008) 046002.
- 3) A. Zanzi
"Chameleonic dilaton, nonequivalent frames, and the cosmological constant problem in quantum string theory". Phys. Rev. D82 (2010) 044006.
- 4) A. Zanzi
"Chameleonic dilaton and conformal transformations."
arXiv. hep-th/1206.4463.
- 5) A. Zanzi
"Species, chameleonic strings and the concept of particle".
arXiv.hep-th/1206.4794.
- 6) A. Zanzi
"Dilaton stabilization and composite dark matter in the string frame of heterotic-M-theory". arXiv.hep-th/1210.4615.
- 7) A. Zanzi
"Chameleonic equivalence postulate and wave function collapse"
arXiv.quant-ph/1404.1942. Submitted to Annals of Physics.
- 8) A. Zanzi, B. Ricci
"Chameleon fields and solar physics"
arXiv.hep-ph/1405.1581. Submitted to Modern Physics Letters A.



9) A. Zanzi

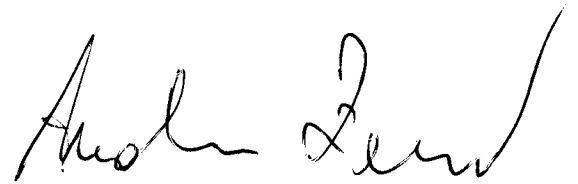
"Chameleonic theories: a short review"

Submitted to Annals of Physics

10) A. Zanzi

"Multiple quantizations, conformal frames and metastable SUSY breaking"

Submitted to Modern Physics Letters A.

A handwritten signature in black ink, reading "Andrea Zanzi". The signature is written in a cursive style with a long, sweeping tail on the last letter.