

Marco Peloso  
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Born: July 12, 1973; Citizenship: Italian

**APPOINTMENTS**

9/2007 - Associate Professor, University of Minnesota  
1/2004 - 9/2007 Assistant Professor, University of Minnesota,  
10/2002 - 12/2003 Post-doctoral Fellow, CITA, University of Toronto.  
10/2000 - 09/2002 Post-doctoral Fellow, Physics Institute, University of Bonn.

**EDUCATION**

10/2000 **Ph.D.**, Institute for Advanced Studies (SISSA-ISAS) of Trieste, in the Elementary Particle Theory Sector.  
Supervisor: Prof. A. Masiero

- Thesis: “New perspectives for the first second: preheating of fermions and extra–dimensions”

07/1997 **B.Sc. cum laude**, Physics, University of Trento, grade 110/110 cum laude. Supervisor: Prof. G. Nardelli

- Diploma Thesis: “Magnetic vortices from an abelian theory, classical and quantum aspects” (in Italian)

07/1996 Imperial College International Diploma, at the Imperial College, London.

## SERVICE

Referee for PRL/PRD/NPB/PLB/JHEP/JCAP/GRQC

Co-editor of the Proceedings of the Workshop CAQCD-06 (Minneapolis)

Co-organizer of the Workshops “Probing Early Structures-05”

CAQCD-06, DSU-07 (Minneapolis)

Co-organizer of the **Cosmo-04** Conference, Toronto 2004

## SELECTED PUBLICATIONS

*The fate of SUSY flat directions and their role in reheating,*  
Phys. Rev. D **74**, 103514 (2006) (with K. A. Olive)

*Equation of state and beginning of thermalization after preheating,*  
Phys. Rev. D **73**, 023501 (2006)

(with D. I. Podolsky, G. N. Felder, and L. Kofman)

*Suppressing the lower Multipoles in the CMB Anisotropies,*  
JCAP **0307**, 002 (2003) (with C. R. Contaldi, L. Kofman  
and A. Linde)

*Super-GZK Photons from Photon-Axion Mixing,*  
JCAP 0305:005,2003 (with C. Csaki, N. Kaloper, and J. Terning)

*Nonthermal production of gravitinos and inflatinos,*  
Phys. Rev. Lett. **87**, 051302 (2001);

*Coupled fields in external background with application  
to nonthermal production of gravitinos,*

JHEP **0104** (2001) 004 (with H. P. Nilles and L. Sorbo)

*Remarks on the Boomerang results, the cosmological constant  
and the leptonic asymmetry,* Phys. Rev. D **62**, 08130 (2000)

(with J. Lesgourgues)

## TEACHING

2004 - Present position: one course per semester

2004 - Supervising graduate students E. Gumrukcuoglu, B. Himmetoglu,  
M. Sexton

2003 Co-supervised L. Kofman’s graduate student J. Martin

2002 Prepared and taught the Exercises for the course in  
Cosmology at the University of Bonn

2002 Co-supervised H.P. Nilles’ Diploma student J. Pielorz

## FUNDING

01/2006-07/2007 Office of graduate school at University of Minnesota  
10/2004- DOE

## AWARDS

2007-2010 McKnight Presidential Fellow Award  
2007-2010 Sofia Kovalevskaja, Von Humboldt (declined)  
2005 IT Student Board "Best Instructor Award" for Physics

## TALKS (since 2000)

### *Nonperturbative Production of Gravitational Relics*

10/2002 Perimeter Institute, Waterloo  
05/2002 "Planck-02" Conference, Kazimierz  
02/2002 University of Oxford  
12/2001 CERN, Geneva, December 2001 (European Network meeting)  
11/2001 Heidelberg University, November  
09/2001 "COSMO-01" Conference, Rovaniemi  
07/2001 University of Minnesota  
06/2001 CITA, Toronto  
04/2001 "Supersymmetric models in the Early Universe" Workshop, Heidelberg  
03/2001 DESY, Hamburg

### *Inflation and reheating*

03/2008 Arizona State University  
07/2007 "Cosmology & Strings" Workshop, ICTP, Trieste  
03/2007 Amherst University  
11/2006 S. Fraser University, Waterloo  
09/2006 DESY, Hamburg  
09/2006 **invited talk** "Nonperturbative dynamics in the Early Universe"  
Workshop, Madrid  
06/2006 University of Padua  
06/2006 Imperial College, London  
11/2005 Chapel Hill, University of North Carolina  
10/2005 **invited talk** "Cosmological frontiers in Fundamental Physics"  
Workshop, Perimeter Institute, Waterloo  
03/2003 University of Minnesota  
02/2003 University of California, Davis  
11/2002 Cornell University  
06/2002 "SUSY-02" Conference, DESY, Hamburg  
03/2000 "XXVth Rencontres de Moriond"

*Infrared modifications of gravity*

04/2005 University of Wisconsin, Madison  
11/2004 Fermilab, Chicago  
06/2004 University of Padua  
06/2004 University of Bonn  
05/2004 **invited talk** “Quarks-2004” Workshop Pushkinskie Gory

*Extra dimensions*

05/2006 Cortona  
05/2006 **invited talk**, “Planck-06” Conference, Paris  
08/2005 **invited talk**, “COSMO-05” Conference, Bonn  
05/2005 DESY, Hamburg  
09/2004 “COSMO-04” Conference, Toronto  
04/2004 Harvard University  
12/2003 **invited talk** “Dark Matter and Dark Energy”  
11/2003 “De Sitter Days Workshop”, Fermilab  
02/2001 University of Dortmund  
08/2000 **invited talk**, “Quantum Gravity and Superstrings” Workshop, Dubna  
07/2000 “Beyond 4-D” Conference, ICTP, Trieste  
05/2000 **invited talk** “Workshop on Theoretical Physics”, Cortona  
05/2000 “From the Planck scale to the Electroweak scale-00”, Ciocco  
02/2000 ICTP, Trieste

*Axion physics and Ultra-high energy cosmic rays*

08/2003 **invited talk** “COSMO-03” Conference, Ambleside

**REFERENCES**

**Prof. Nemanja Kaloper** University of California, Davis  
**Prof. Lev Kofman** C.I.T.A., Toronto  
**Prof. Antonio Masiero,** University of Padua  
**Prof. Hans Peter Nilles** University of Bonn  
**Prof. Erich Poppitz** University of Toronto