

Ferruccio Feruglio
Dipartimento di Fisica e Astronomia
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EMPLOYMENT

PROFESSOR OF THEORETICAL PHYSICS --- 2002-PRESENT

University of Padova

ASSOCIATE PROFESSOR OF THEORETICAL PHYSICS --- 1998-2002

University of Padova

RESEARCHER IN THEORETICAL PHYSICS --- 1983-1998

University of Padova

VISITING SCIENTIST --- 1997

CERN, Geneva, Switzerland

EDUCATION

University of Geneva, Geneva, Switzerland — PhD in physics, 1991. Advisor: Prof. Raoul Gatto
SISSA, Trieste, Italy --- Master in Physics, 1983. Advisor: Prof. Luciano Girardello
University of Padova, Padova, Italy --- Laurea in Physics, 1982. Advisor: Prof. Giovanni Costa

RESEARCH INTERESTS

Physics Beyond the Standard Model
The Flavour Problem

PUBLICATIONS

113 entries in INSPIRE of which 3 with more than 500 citations. Total 9800+ citations. h-index 55.

GRANTS

Node Coordinator of National PRIN Projects:

- **Beyond the Standard Model** (2004021808_005) (2004-2006) 71.5 kE
- **Searching for a Unified Theory in the LHC Era** (2006022501_004) (2007-2009) 65.26 kE
- **Searching for a Unified Theory in the LHC Era** (2008XM9HLM_003) (2010-2012) 53.57 kE
- **Symmetries, Masses and Misteries** (2010YJ2NYW_003) (2013-2016) 117.59 kE
- **Search for the Fundamental Laws and Constituents** (2015P5SBHT_003) (2017-2020) 131 kE

TEACHING

- **Theory of Fundamental Interactions** (2006-2011)
- **Quantum Field Theory I** (2009-2014)
- **General Physics I** (2004-2009, 2015-PRESENT)
- **Fundamentals of Theoretical Physics** (2012-PRESENT)

PHD STUDENTS

- Alessandro Vicini (now Associate Professor at the University of Milano, Italy)
- Stefano Rigolin (now Full Professor at the University of Padova, Italy)
- Isabella Masina (now Researcher at the University of Ferrara, Italy and Adjunct professor at CP3-Origins, Southern Denmark University, Denmark.)
- Carla Biggio (now Researcher at the University of Genova, Italy)
- Maria Laura Alciati (PhD 2006)
- Luca Merlo (now Ramon y Cajal Researcher at UAM, Madrid, Spain)
- Denise Vicino (PhD 2016)
- Andrea Pattori (PhD 2017)
- Claudia Cornella

COMMITTEE MEMBERSHIPS

- member, "Abilitazione Scientifica Nazionale", (2012-2013)
- member, Scientific Area Committee of Dept. of Physics and Astronomy of Padova (2013-PRESENT)
- member, College of Lecturers of PhD School of Astronomy of Padova (2015-PRESENT)
- member, Scientific Committee of Gran Sasso National Laboratory (2014-2017)
- member, Editorial College of SciPost (2017-PRESENT)

LECTURES AT INTERNATIONAL SCHOOLS

- International School of Astroparticle Physics, "Neutrino masses", ISAPP 2017, 13-24 June 2017 Arezano (GE)
- GGI lectures on the Theory of Fundamental Interactions, lectures on "Neutrino Physics", Jan 2015, Firenze, Italy
- INVISIBLES 14 School, lectures on "Neutrino theory (BSM and phenomenological implications)" 8-13 Jul 2014 Gif-Sur-Yvette, France
- Summer School and Workshop on the Standard Model and Beyond, lectures on "Flavour Physics", 3-14 sep 2014, Corfu (Gr)
- 11th Hellenic School and Workshops on Elementary Particle Physics and Gravity- 1st School of ITN Unification in the LHC Era, lectures on "Flavour Physics", 4-15 sep 2011, Corfu, (Gr)
- 2011 Dual CP Institute of High-Energy Physics Workshop: Flavor Symmetries, lectures on "The Flavour Mystery: New and Old Ideas", 4-14 Jan 2011, Colima, Mexico
- PhD School of Granada University, lectures on "Aspects of Neutrino Physics", June 2011, Granada, Spain
- Topical Seminar on Frontier of Particle Physics – Neutrino Physics and Astrophysics, lectures on "Neutrino Mass Models", 17-21 Sep 2008, Beijing (Cina)

- Particules Elementaires, Gravitation et Cosmologie – Le Model Standard et ses Estensions, lectures on *“Neutrino Masses, Mixings and Oscillations”*, 14 Mar 2008, College de France, Paris, (Fr)
- 2nd Seminario Nazionale di Fisica Teorica a Parma, lectures on *“The Chiral Approach to The Electroweak Interactions”*, 1-12 Sep 1992 Parma, Italy
- INFN Schools at Otranto and Catania, Italy.

SELECTION OF INVITED TALK AT CONFERENCES

“B-anomalies related to leptons and LFV: new directions in model building”
invited talk at **BEAUTY 2018**, 6-11 May 2018, Isola d’Elba, Italy

“Are neutrino masses modular forms?”
invited talk at **VCES 2017**, 30 November – 1 December 2017, Vienna, Austria
and **FLASY 2018**, 2-5 July 2018, Basel, Switzerland

“On the Importance of ElectroWeak Corrections for B-anomalies”
invited talk at **SM@LHC**, 2-5 May 2017, Amsterdam, NL

“Where are neutrino mass-mixing parameters leading us?”
plenary talk at **NOW 2016**, 04-11 Sep 2016, Otranto (Lecce), Italy

“Theory of leptonic flavor mixing”
plenary talk at **NEUTRINO 2016**, 04-09 Jul 2016, London, United Kingdom

“Theoretical Aspects of Flavor and CP violation in the Lepton Sector”
plenary talk at the **27th Rencontres de Blois on Particle Physics and Cosmology**, 31 May – 5 June 2015, Blois, France

“Theory Perspective on Flavor”
plenary talk at **NuPhys2013**, 19-20 Dec 2013, London, UK

“Combining Flavor and CP Symmetries”
plenary talk at **Discrete 2012**, 3-7 Dec 2012, Lisbon, Pt

“Discrete Flavor Symmetries after Daya Bay and Reno”
plenary talk at **Planck 2012 – From the Planck scale to the EW scale**, 28 May – 1st June , 2012–
Warsaw, Pl

“Neutrino Masses, Mixings (Theory)”
plenary talk at **ICHEP 2006**, 26 Jul – 2nd Aug, 2006 Moscow, Russia

“Models of Neutrino Masses and Mixings”
plenary talk at **Neutrino 2004**, 14-19 Jun 2004, Paris, France

“Extra Dimensions in Particle Physics”
plenary talk at **2003 Europhysics Conference on High Energy Physics (EPS-HEP 2003)**,
17-23 Jul 2003, Aachen, Germany