

STEFI is a network including:

- 6 nodes: BO, NA, **PD**, Rome, TO, TS
- 27 staff members



Padova node members:

- **Staff (100%):** K. Lechner, P. Marchetti, M. Matone, D. Sorokin (RL), R. Volpato
- **PD and Phd:** (2018 only: P. Ntokos (50% GSS), S. Bansal)

5.0 FTE:

- K. Lechner, P. Marchetti, M. Matone, D. Sorokin (RL),
R. Volpato

11 KEURO

Topics:

- Dynamics of strings and branes
- Supergravity and spontaneous breaking of supersymmetry (w/ GSS)
- Mathematical structures in string theory and QFT
- Problems of interactions of higher spin fields
- **Modified theories of gravity** (w/ INDARK)
- Fundamental aspects of quantum field theory
- Application of QFT methods to statistical and condensed matter physics and **quantum information**

Collaborations:

- **GSS PD** (S. Lanza, L. Martucci)
- **INDARK PD** (A. Ganz, P. Karmakar, S. Matarrese)
- Dipartimento di Fisica, Uni Milano Bicocca (S. Penati)
- Department of Theoretical Physics, University of Basque Country, Bilbao, Spain (I. Bandos, J.J. Blanco-Pillado)
- Department of Physics, University of Western Australia, Perth (S. Kuzenko, E. Buchbinder)
- Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, China (Lu Yu, Zhao-Bin Su, Fei Ye)
- Department of Mathematical Sciences, University of Liverpool, UK (A.E. Faraggi)
- McGill University, Montreal, Canada (S.M. Harrison)
- ITP, Caltech, Pasadena, CA, USA (N.M. Paquette)
- SITP, Stanford University, CA, USA (M. Zimet)
- ITP, University of Amsterdam, Netherlands (M. Cheng)
- Chalmers University, Sweden (D. Persson)