



April 18

- 10.30-10.45 - Welcome address
P. Campana (Director INFN Frascati Labs),
M. Pallavicini (President Scientific Commission 2, INFN),
M. Tavani (INAF, HQ)
- 10.45-11.15 - **G. Raffelt** (MPI, Munich): Introduction to Axions
- 11.15-11.45 - **Y. Redondo** (University of Saragoza): Axions, Dark matter and cosmology
- 11.45-12.15 - **M. Giannotti** (Barry University): Axions and Stellar Physics
- 12.15-12.45 - **M. Roncadelli** (INFN, Pavia): High-energy astrophysics and axion-like particles – 1
- 12.45-13.15 - **F. Tavecchio** (OABrera/INAF, Milano): High-energy astrophysics and axion-like particles - 2

13.15-14.30 Lunch

- 14.30-15.00 - **P. Rosati** (University of Ferrara/INFN): Constraints on DM from Surveys
- 15.00-15.30 - **S. Etti** (OABologna/INAF, Bologna): Observations of the the 3.55 keV emission line and X-ray excesses in clusters
- 15.30-16.00 - **M. Cicoli** (University of Bologna/INFN): Possible origin of the 3.55 keV line

16-16.15 Coffee

- 16.15-16.45 - **A. Mirizzi** (University of Bari/INFN): Axions from supernovae: bounds and discovery opportunities
- 16:45-17:10 - **A. Polosa** (University of Rome “La Sapienza”/INFN): Axion-like particles searches with sub-THz photons
- 17.10-17.35 - TBD: The PADME experiment
- 17.35-18.00 - **G. Carugno** (INFN, Padua): Axion-Electron Interaction for Cosmological Axion : a possible experimental approach
- 18.00-18.25 - **A. Lindner** (DESY, Hamburg): the ALPS II experiment
- 18.25-18:50 - **J. Vogel** (Lawrence Livermore National Lab.) : NuSTAR solar observations and implications for axions and ALPs

April 19

- 9.00 - 9.25 - **G. Zavattini** (University of Ferrara/INFN): Results from PVLAS
- 9.25 - 9.50 - **E. Costa** (ASI + IAPS/INAF, Roma): Search for axions and ALPs with X-ray Polarimetry
- 9.50 - 10.35 - **I. Irastorza** (University of Saragoza): Motivation, status and Prospects of the International Axion Observatory (IAXO)

10.35-11 Coffee

- 11.00-11.20 - **M. Pivovarov** (Lawrence Livermore National Lab.): X-ray optics requirements for IAXO
- 11.20-11.40 - **TBD**: Italian expertise on magnets and possible contribution to IAXO
- 11.40-12.00 - **G. Pareschi** (OABrera/INAF, Milano): IAXO X-ray optics and possible italian contributions
- 12.00-12.20 - **S. Dabagov** (INFN Frascati Labs): Focal plane concentrators based on Kumakov Lenses: possible use in IAXO
- 12.20-12.40 - **TBD**: IAXO telescope structure and possible italian contributions
- 12.40-13.00 - **TBD**: Ideas for possible Italian contributions to the X-ray Cameras for IAXO
- 13.00-13.20 - **D. Vincenzi** (University of Ferrara/INFN): Strategies and techniques for pointing the Sun

13.20-14.45 Lunch

14:45-16:30 - **Round table on the possible italian participation in IAXO**