



IAXO

INFN
Istituto Nazionale
di Fisica Nucleare
Laboratori Nazionali di Frascati



The Search of Axions in the Universe

INFN-Laboratori Nazionali di Frascati
Aula B. Touschek April 18 - 19, 2016

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Axions are possible components of the Dark Matter playing a role in different astrophysical processes regarding many classes of celestial objects. The International Axion Observatory (IAXO) is a new generation axion helioscope, proposed by an international collaboration, aiming at the detection of axions emitted in the solar core. This coelostat telescope continuously pointing at the solar centre will be based on a set of X-ray grazing incidence mirror telescopes placed behind a large and powerful magnet that has to convert axions in X-rays. In the focal plane of the telescopes, spectroscopic low background detectors are placed to measure the X-rays expected from the solar axions converted in the magnet. The workshop is intended to stimulate the large Italian community of theoretical physicists, particle physicists, astrophysicists, cosmologists, etc., in particular from INFN, INAF, ASI and universities interested to contribute to the IAXO proposal.

Secretariat

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