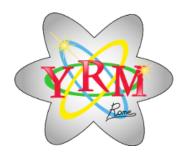
Young Researchers Meeting In Rome 2012



Contribution ID: 14 Type: not specified

Evolving X-ray Polarimetry towards high energy and solar science

Friday, 20 January 2012 15:50 (20 minutes)

The Sun is an astrophysical source with a strong emission in the X-ray band. The study of solar flares is a key point for understanding the behaviour of the magnetic field of our star. In literature there are a lot of theories about polarization predictions, for a wide range of solar flares models but observations in the X-ray band have never been exhaustive.

I will explore the possibility to employ the photoelectric polarimeter Gas Pixel Detector (GPD) to achieve X-ray polarimetric measurements up to 35 keV.

This instrument can be coupled with a Compton scattering polarimeter to extend the observable energy band to higher energies and cover a wide portion of the solar flares X-ray spectrum.

Primary author: FABIANI, Sergio (INAF-IAPS Roma & Università di Roma "Tor Vergata")

Session Classification: Session - III : Astrophysics