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Evolving X-ray Polarimetry towards high energy and solar science

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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: FABLANI, Sergio (INAF-IAPS Roma & Università di Roma "Tor Vergata")

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