

Polarized light from accreting low mass X-ray binaries

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The polarized X-ray radiation emitted from an accreting low mass X-ray binary (LMXB) is expected to give information about the geometry of the region where the Comptonization occurs and about the spin of the accreting BH. Actually, first results obtained from IXPE seem to reveal that the scenario for LMXBs is more complicated than expected: the polarization properties seem to differ from what current models have predicted. Moreover, while there are hints that winds and the reflection component could have a role in the detected polarised light, the most interesting result reported until now is that the polarization angle of both BH and NS LMXB seems to be aligned with the radio jets.

I will summarize the principal characteristics of LMXBs in the light of the new IXPE results on polarization.

Primary author: CAPITANIO, Fiamma (INAF/IAPS)

Presenter: CAPITANIO, Fiamma (INAF/IAPS)

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