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X-ray spectro-polarimetric models for XRBs and AGN

Recent discoveries by the IXPE mission since 2022 have highlighted the need for more sophisticated spectro-polarimetric models to interpret photon reprocessing in various components of X-ray binaries (XRBs) and active galactic nuclei (AGN). To address this, our group has developed several models compatible with XSPEC, a widely used tool for X-ray data analysis. These models include STOKES tables for the reprocessing of power-law radiation in ionised constant-density slabs, models of relativistic reflection from the inner accretion disc, non-relativistic reflection from distant material, and polarisation models of thermal disc emission. In this flash talk, I will provide an overview of the available models, highlighting recent updates and enhancements.

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