The method of transfer functions to describe GR effects in spectra and polarisation from black-hole accretion disks

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Abstract

We will review a fruitful way to compute variety of radiation signatures from accretion disks in strong gravity. Five transfer functions can be pre-computed and then employed to generate model spectra and to fit them to data in X-rays. We have been developing this approach to analyse spectra and light curves in the corona-disk-line geometry, and to anticipate the polarimetric properties of this scenario with upcoming missions IXPE and eXTP.

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