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Invited lecture

THE SHAPE OF Fe K α LINE EMITTED BY ACTIVE GALACTIC NUCLEI: MICROLENSING EFFECTS

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Abstract. The Fe K α line is emitted from an accretion disk around a massive black hole located in the center of Active Galactic Nuclei (AGN). Here we present a model of the Fe K α emitting accretion disk in Kerr metrics. We discuss the different Fe K α line shapes as a function of different disk parameters. Moreover, the influence of microlensing on the Fe K α line shape will be presented.