- Abstract for a short contribution for the Splinter Meeting:Active Black Holes

The inner Broad Line Region Structure in Mrk110

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We present new spectroscopic results of the highly variable narrow-line Seyfert 1 galaxy Mrk110. The data of this variability campaign have been obtained with the 9.2m HET Telescope at McDonald Observatory. Delays of the integrated HeII, HeI, and Balmer line fluxes with respect to the variable continuum verify an ionization structure in the BLR of Mrk110. Furthermore, we studied in detail the variability pattern of the resolved emission line profiles to determine the geometry and kinematics of the Broad Line Region. Only an accretion disk wind model matches our observations. In addition, we derive the central black hole mass in this AGN from the integrated line variations as well as from velocity delay maps (Kollatschny and Bischoff, Astr.Astrophys. Letters 386, L19 (2002); Kollatschny in prep. (2002)).