

Non-thermal features from broad-line region clouds

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Active galactic nuclei show in their spectra broad-emission lines that are considered to be created by clouds orbiting close to the central black hole. The motion of these clouds is predominantly Keplerian, consistent with the scenario described by the Failed Radiatively Accelerated Dusty Outflow (FRADO; Czerny & Hryniewicz 2011). In this talk, we discuss the non-thermal signatures that can arise from the inflow motion of the clouds and their interaction with the accretion disk according to the FRADO model. We show that significant non-thermal radiation can be produced, especially in the hard X- and gamma-ray bands displaying the spectral energy distributions similarities to the gamma emitter narrow-line Seyfert 1 galaxies spectra.

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