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Stochastic acceleration in blazars: theory and phenomenology with a focus on the spectral curvature and pile-up in the X-ray and TeV data

Thursday, 24 January 2019 09:00 (20 minutes)

I will review some of the main phenomenological signatures of the stochastic acceleration acting in the relativistic jets of blazars. I will link predictions from Monte Carlo simulations and from the numerical solution of the diffusion equation in momentum space, to the spectral features observed in the multi-wavelength SED of blazars. In particular, I will focus on the spectral evolution and spectral curvature in the X-ray and in the TeV data. Finally, I will discuss the formation of pile-up during strong flares.

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