

Mass load of magnetically-dominated jets

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Relativistic jets in active galactic nuclei start as a Poynting flux produced in the ergosphere of rapidly rotating black holes. However, at distances of a few tens of gravitational radii from the black hole these jets produce synchrotron and inverse Compton radiation, a clear indication that they have a significant content of charged particles. In this talk I discuss the origin of such particles with emphasis on the role played by the hot accretion flows in the process of jet generation.

Primary author: ESTEBAN ROMERO, Gustavo (Instituto Argentino de Radioastronomía)

Presenter: ESTEBAN ROMERO, Gustavo (Instituto Argentino de Radioastronomía)

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