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Searches for Dark Matter with radio and gamma lines

Thursday, 19 September 2013 11:00 (25 minutes)

Annihilations of Dark Matter in the form of WIMPs produce photon fluxes ranging from radio wavelengths to gamma-rays. In particular, low energy emissions are associated with the interactions of the WIMPs annihilation products with the intergalactic medium.

I will present constraints on the WIMPs properties from current radio surveys and I will discuss the prospects for detection with future radio data.

I will review the status of DM searches with gamma-ray spectral features and I will investigate DM models which can naturally lead to large line signals.

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