

Tracking the nature of DM in the Local Universe

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I shall describe some promising features of our Local Universe that can help reveal some feature of a particle DM candidate. Simulations of galaxy and DM structure formation of warm, cold and self-interacting DM candidates indicate that features of the Galactic and M31 halo like: tidal streams gaps, satellite galaxies orbit parameter distribution and their internal properties can differ significantly in different DM candidate scenarios. Observations that the LSST will foster will allow us to use these features as potential DM tale-tell.

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