

# Gamma-ray Probes of Dark Matter Halo Substructure

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Cosmological simulations predict the presence of a significant population of substructure within dark matter halos. Being dark, these structures are very difficult to probe observationally. Gravitational lensing and baryon signatures give us some information, but cannot probe structures of smaller scales. Dark matter annihilation is a very sensitive probe of dark matter structure. I discuss methods for gamma-ray observations to probe substructure models.

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**Session Classification:** Indirect searches for dark matter