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Sterile Neutrino Dark Matter via Secret Neutrino Interactions

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In this talk, I will present the anatomy of production mechanisms for sterile neutrino dark matter, a keV-scale gauge-singlet fermion that mixes with active neutrinos, in the presence of new interactions among active neutrinos. These new interactions allow sterile neutrinos to make up all the DM while safely evading all current experimental bounds. The existence of these new neutrino interactions may manifest itself in next-generation experiments, including DUNE.

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