Search for GeV-scale decaying sterile neutrinos with IceCube DeepCore

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IceCube is a cubic kilometer ice Cherenkov detector located at the South Pole that can be used to test models describing the production and decay of particles not included in the standard model. This talk introduces a novel analysis searching for heavy neutral lepton signals using DeepCore, a dense sub-array of IceCube capable of detecting particle interactions at energies as low as 10GeV.

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