Contribution ID: **19** Type: **not specified**

Inelastic Boosted Dark Matter Searches at Neutrino Detectors

Thursday, 6 December 2018 11:30 (30 minutes)

The search for boosted dark matter, which often arises in two-component dark matter scenarios, has received rising attention as an alternative dark matter search strategy. I will discuss phenomenology of boosted dark matter at neutrino detectors including Super/Hyper Kamiokande, focusing on the case where such boosted dark matter scatters off target material inelastically to a heavier unstable dark-sector state which further decays into visible particles in addition to visible target recoil.

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Session Classification: Plenary Session