Department of Theoretical Physics

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Detection of Supernova Neutrinos

Wednesday, 27 November 2019, 11:30
Room AG66

When a massive star collapses at the end of its life, nearly all of the gravitational binding energy of the resulting remnant is released in the form of neutrinos. I will discuss the nature of the core-collapse neutrino burst and what we can learn about particle physics and about astrophysics from the detection of these neutrinos. I will cover supernova neutrino detection techniques in general, current supernova neutrino detectors, and prospects for specific future experiments, with some emphasis on the Deep Underground Neutrino Experiment's capabilities.

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