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Dark Matter and Neutrino Masses in Gauge Theories for Baryon and Lepton Numbers

Thursday 25 September 2014 15:00 (20 minutes)

I present extensions of the Standard Model, where the global symmetries baryon and lepton number are gauged and subsequently spontaneously broken. These theories are consistent with collider bounds and cosmology, and have intriguing consequences due to the requirement of anomaly cancellation: lepto-baryon fields that have to be introduced can be a dark matter candidate and/or generate neutrino masses. I discuss symmetric and asymmetric dark matter, as well as the generation of neutrino masses in these extensions.

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