

DISCRETE 2014: Fourth Symposium on Prospects in the Physics of Discrete Symmetries



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Gauge Theories for Baryon and Lepton Numbers with Lepto-Baryons

Tuesday, 2 December 2014 18:00 (30 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, the generation of neutrino masses, as well as collider signatures in these extensions.

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Session Classification: Parallel 1: $g-2$ & discrete symmetries (T, C, P), flavour, accidental symmetries