

Gordon Research Seminar in Particle Physics: Pushing the Frontiers of  
Particle Physics During the LHC Run II Era

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## Light Dark Matter in the SHiP experiment

*Sunday, 25 June 2017 13:45 (15 minutes)*

The baryon asymmetry of the Universe could originate from the lepton asymmetry which was produced at relatively low temperatures. Using a model with three right-handed neutrinos ( $\nu$ MSM) as an example, we demonstrate how to obtain a kinetic equation for the baryon number density and show in which cases this accurate treatment could be important.

**Presenter:** TIMIRYASOV, Inar

**Session Classification:** The "cosmic frontier" and the search for New Physics in outer space