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Neutrino masses and Gravitational waves

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We present a set of minimal Dirac neutrino mass models and discuss their cosmological consequences. Specifically, such models generate a neutrino mass at tree level and can have a multiple gravitational wave signature through primordial phase transition(s), can explain the asymmetry between matter and antimatter via neutrinogenesis and accommodate a dark matter candidate in dark glueballs or dark baryons. We discuss situations where the effects on the parameter space from different cosmological considerations overlap and are complimentary to collider probes.

Author: Dr POPOV, Oleg (Seoul National University of Science and Technology)

Presenter: Dr POPOV, Oleg (Seoul National University of Science and Technology)

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