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Gravitational waves from phase transitions and cosmic strings in neutrino mass models with multiple Majorons

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The origin of Majorana neutrino masses in a Majoron model provide a well-motivated scenario for the generation of identifiable primordial stochastic background of gravitational waves. In this talk I will discuss how a spectrum with a joint contribution both from a strong first order phase transition and from global cosmic strings can emerge naturally in these models. Moreover, the interplay between multiple Majorons can enhance the signal making it detectable at planned experiments and even give rise to a double peaked spectrum.

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