Sixteenth Marcel Grossmann Meeting



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Type: Invited talk in the parallel session

Particle creation by wormholes: a toy model.

Tuesday, 6 July 2021 11:30 (15 minutes)

Taking advantage of the simplicity of the quantum field theory of a free massless scalar field in 1+1 dimensions, a toy model that explores the effects of the interaction of wormholes and quantum fields is constructed. The conditions for the existence of quantum particle production are discussed in terms of the symmetries of the two-point function of the scalar field theory.

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