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Beyond the speed of light - Propagation of of the scalar field on Finsler spacetime

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Finsler spacetime manifolds are generalizations of Lorentz spacetime manifolds due to the use of Finsler geometry instead of Lorentz geometry. In this talk I present results on the propagation of the free scalar field on Finsler spacetimes.

On a specific Finsler spacetime that is a small departure from Minkowski spacetime I present the dispersion relation of the particle modes of the free scalar field and study the resulting particle velocity.

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