Contribution ID: **22**   Type: **not specified**

A Langrangian generalisation of the notion of a stationary Lorentzian metric

Thursday 22 September 2022 11:00 (40 minutes)

I will consider a class of Lagrangians on a finite dimensional manifold which are invariant by the action of a continuous group of local diffeomorphisms and that capture some of the features of a Lorentzian metric admitting a timelike Killing vector field. This class includes known examples of stationary Lorentz-Finsler metrics and since they admit a locally injective Legendre transform they might be of some interest for modified dispersion relations.

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