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Gerard Thompson (gerard.thompson@utoledo.edu), Dept of Mathematics, University of
Toledo, Toledo, OH 43606. *Symmetries of the Eikonal Equation on a Lorentzian
space*. Preliminary report.

In this talk we present our preliminary results about the symmetries on the Eikonal equation on a Lorentzian space in dimensions 2 and 3. We consider flat Lorentzian and spaces of constant curvature. In either case, we identify the symmetry algebra for any dimension and use the symmetries to produce solutions. (Received July 01, 2019)