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Conformal Carroll scalar actions

Wednesday, 10 August 2022 13:30 (45 minutes)

I will discuss recent approaches to Carroll geometry and its applications to field theory and gravity. Carroll symmetries appear from an ultra-local limit of Lorentz symmetries, and we can use this to systematically construct theories coupled to Carroll background geometry. Specifically, I will discuss recent work on constructing concrete scalar field theories with conformal Carroll symmetries, and their role as toy models in flat space holography.

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