

Nonsmooth Lorentzian Geometry

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Starting from Gromov's intuition in the 80s, the subject of metric geometry is now a very active research area. A typical research direction is: which sort of singularities of Riemannian manifolds are allowed/prevented by suitable curvature bounds?

In more recent years, starting from seminal contributions of Kunzinger-Samann and McCann and with motivations coming from general relativity, similar questions have been studied in the context of Lorentzian geometry.

Aim of the talk is to review some of these more recent progresses.