

Felix Rott- "Alexandrov geometry and nonsmooth Lorentzian geometry"

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We give a beginner friendly introduction to Alexandrov geometry. We recall some basic concepts from Riemannian geometry and give an idea of how they can be abstracted to a setting beyond manifolds. We state Toponogov's Theorem on triangle comparison and the associated globalisation theorems. We conclude with a brief outlook on how this successful theory can be applied in Lorentzian signature.