Contribution ID: **19**   Type: **not specified**

General Relativity

Thursday 18 July 2024 17:15 (45 minutes)

Abstract: General relativity is a beautifully geometric and mathematically rigorous theory describing our universe on large scales, where gravity plays a crucial role. After an introduction to differential and Riemannian geometry we will look in more detail at the mathematical underpinnings of this theory and talk about geodesics, normal coordinates, Einstein equations, and other interesting topics.

Keywords: spacetime, metric, curvature, geodesics, normal coordinates, Einstein equations

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