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Lie Symmetries in General Relativity

September 2,5,6,7, 2022

The course will be delivered on exact solutions of Einstein's field equations and their Lie symmetry analysis. For this purpose, first the basics of Riemannian geometry, curvature theory and Lie symmetries will be provided. Then the detailed calculations with applications and physical interpretation will be presented. Connection with Lie groups and Lie algebras will also be established.