



复旦大学数学科学学院 数学综合报告会

报告题目: Einstein field with internal gauge freedom

报告人: Dr. HO Fei-Hung (浙江工业大学)

时间: 2017-10-23 星期一 9:00-10:00

地点: 光华东主楼 1704

摘要: The theories of interest include General Relativity formulated in terms of tetrads, Einstein-Yang-Mills theory and Einstein-Dirac theory. For these theories having internal gauge freedom, we are going to see properties of their natural group action of diffeomorphisms of spacetime on such dynamical fields. For Einstein-Dirac equations, we go through several attacked and under-attacked situations of searching its solutions. We hope to figure out the horizon thermodynamics for Einstein-Dirac theory. We further want to investigate the Einstein-Dirac theory with aether field to see if we can have the Einstein-Dirac-aether solutions.

非线性数学模型与方法教育部重点实验室
中法应用数学国际联合实验室
上海市现代应用数学重点实验室
复旦大学数学研究所