



复旦大学数学科学学院 数学综合报告会

报告题目：午间学术报告会（一百六十）：Gravitational Wave, Angular Momentum and Supertranslation Ambiguity

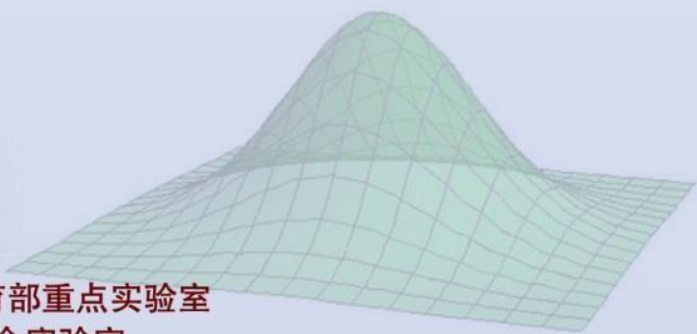
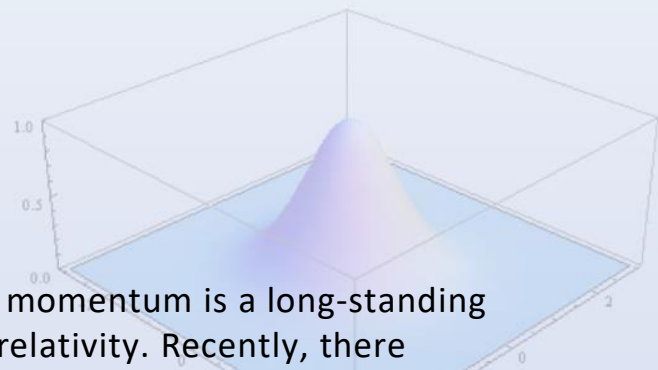
报告人：谢纳庆 教授 (复旦大学数学科学学院)

时间：2022-11-11 星期五 12:00 - 13:00

地点：光华东主楼2201

报告摘要：

The supertranslation ambiguity of angular momentum is a long-standing and conceptually important issue in general relativity. Recently, there appeared the first definition of angular momentum at null infinity that is supertranslation invariant. However, in the compact binary coalescence community, supertranslation ambiguity is often ignored. We have shown that, in the linearised theory of gravitational wave, the new angular momentum coincides with the classical definition at the quadrupole level. This talk is based on a recent joint work with Xiaokai He and Xiaoning Wu.



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