

Angular Momentum to a Distant Observer

Thursday, 4 November 2021 10:30 (30 minutes)

The notion of angular momentum in general relativity has been a subtle issue since the 1960's, due to the discovery of “supertranslation ambiguity”: the angular momentums recorded by two distant observers of the same system may not be the same. In this talk, I shall show how mathematical theory identifies a correction term, and leads to a new definition of angular momentum that is free of any supertranslation ambiguity. This is based on joint work with Po-Ning Chen, Jordan Keller, Mu-Tao Wang, and Ye-Kai Wang

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