

BMS with applications

Tuesday, January 14, 2020 11:30 AM (45 minutes)

This will be an overview talk about the Bondi-Metzner-Sachs group, which is the symmetry group of asymptotically flat spacetimes. After having reviewed its main properties, I will discuss some applications such as the memory effect. Next, I will discuss the BMS algebra in other contexts such as higher dimensions and black hole horizons. The latter is conjectured to be key in solving the information loss paradox. Finally, I will venture beyond asymptotic flatness to include superrotations or a positive cosmological constant.

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Session Classification: Morning session