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The double copy for scattering of Reissner-Nordström black holes

Thursday 11 January 2018 16:10 (20 minutes)

The double copy is a direct duality between Yang-Mills theory and gravity that emerges from the modern scattering amplitudes programme. In this talk I will discuss how the double copy can be applied to the scattering of Reissner-Nordström black holes, deriving the classical perturbative result from charged scalar diagrams, and showing that a novel external axion mode also arises. Such calculations offer the tantalising possibility of greatly simplifying theoretical predictions for precision gravitational wave astronomy.

What would be the preferred length of your talk?

20 minutes + questions

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