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Black Holes and the Double Copy

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The “double copy” expresses gravity as the square of Yang-Mills. This elegant property was originally found for amplitudes, since it has been proven to tree level it must also be true for classical theory as well. Excitingly, this means that black holes and other exact solutions to general relativity can be described without needing perturbation theory. This talk will explore the relationship between general relativity and Yang-Mills theory in more depth and will detail recent progress in “double copying” black holes.

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