

What is new in gravity?

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Gravity as a double copy of gauge theory

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Relations expressing gravity as a “double copy” of gauge theory appeared first in string theory, and have been used to compute scattering amplitudes in theories of gravity, with applications to both theory and phenomenology. I will discuss how the double copy extends to a class of solutions to the equations of motion, including our best known black hole spacetimes, and how this story connects to the original story for scattering amplitudes.

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