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Color/ Kinematics Duality in AdS_4

Wednesday 16 December 2020 16:00 (30 minutes)

In flat space, the color/kinematics duality states that perturbative Yang-Mills amplitudes can be written in such a way that kinematic numerators obey the same Jacobi relations as their color factors. This property leads to the BCJ relations between Yang-Mills amplitudes and underlies the double copy to gravitational amplitudes. In this talk, I will explore how this extends to AdS_4, where a generalised gauge symmetry can be used to enforce the Jacobi relations away from the flat space limit; this lets us derive deformed BCJ relations. I will also review the spinor helicity in a curved background, leading to compact new expressions for 4pt Yang-Mills amplitudes in AdS_4.

Would you be interested in receiving feedback on your talk?

Yes

Will you be pre-recording your talk?

No

Length of talk

15-25 minutes

Are you happy for your talk to be recorded?

Yes

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