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From Amplitudes to Strong Fields and back again

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Over the last 30 years, there has been intensive work and incredible progress in our understanding of perturbative scattering amplitudes in gauge theory and gravity, but so far these advances have not addressed strong background fields. In this talk, I will try to convince you that there is actually an un-tapped wealth of connections between the amplitudes and strong field communities, which could lead to surprising advances in both.

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