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New Mathematics for Old Scattering Amplitudes

Wednesday 10 August 2011 14:00 (30 minutes)

Scattering amplitudes have played a central role in quantum field theory since its inception. Recent years have seen remarkable progress in our understanding of their previously hidden mathematical simplicity, and in our ability to compute previously intractable scattering amplitudes, both for theoretical and phenomenological purposes. In this talk I will review several of the latest advances on scattering amplitudes in Yang-Mills theory, including on-shell methods and new mathematical technology for dealing with multi-loop amplitudes.

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