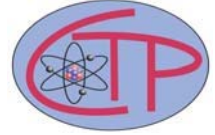




NEW YORK CITY COLLEGE OF TECHNOLOGY
Physics Department
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Evaluation of Scattering Amplitudes with Algebraic Geometry

Presented by:

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Abstract

The calculation of scattering amplitudes for high energy particle collisions is an extremely challenging task and requires the computation of so called Feynman integrals. Rather than solving them by direct integration, one possibility is to perform algebraic manipulations, namely polynomial division on the integrand level. This motivates the use of algebraic geometry, to which I will provide a short introduction.