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The Constructive Method for Massive Particles in QED

Tuesday 14 May 2024 17:00 (15 minutes)

The constructive method of determining amplitudes from on-shell pole structure has been shown to be promising for calculating amplitudes in a more efficient way. However, challenges have been encountered when a massless internal photon is involved in the gluing of three-point amplitudes with massive external particles. In this talk, I will describe how to use the original on-shell method, old-fashioned perturbation theory, to shed light on the constructive method, and show that one can derive the Feynman amplitude by correctly identifying the residue even when there is an internal photon involved.

Mini Symposia (Invited Talks Only)

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