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Bethe Colloquium: The Landau Bootstrap

Thursday 4 September 2025 16:15 (1 hour)

Physical principles such as locality and unitarity are believed to impose strong constraints on the mathematical structure of scattering amplitudes. However, we remain incapable of working out the full implications of these principles in concrete examples. In this talk, I will give an overview of recent progress towards working out the constraints these principles place on individual Feynman integrals. I will also describe how these constraints can be fed into a bootstrap approach, via which the functional form of Feynman integrals can be determined from just knowledge of their singular behavior.

Presenter: MCLEOD, Andrew