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Innovator Prize Winner - Finding renormalons in integral equations: a resurgent insight into QFT's conun-drum

Monday 12 September 2022 10:30 (45 minutes)

Renormalons are non-perturbative effects which are manifested in perturbative series. While they appear in important QFTs, they are in general poorly understood. In this talk I will explain how to analytically find these non-perturbative effects in the free energy starting from the Bethe ansatz integral equations. I will also present a short introduction to the framework of resurgence and to how it is a key tool in the analysis of non-perturbative effects in QFT.

Presenter: REIS, Tomas