Physics in Intense Fields (PIF22)



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Resurgence of the Gradient Expansion for Intense Fields

Tuesday 30 August 2022 13:30 (30 minutes)

A major computational challenge in the physics of intense fields is the ability to do reliable non-perturbative computations for fields that are both strong and have large gradients. In this talk I discuss the use of ideas from resurgence to make precise resummations and analytic continuations into the intense field regime beginning with modest amounts of perturbative weak-field information. The main idea is illustrated with an example of the Schwinger effect in an intense inhomogeneous field.

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