

Resurgence and Phase Transitions

Wednesday, 4 December 2019 10:30 (40 minutes)

Resurgent asymptotics unifies perturbative and non-perturbative methods in quantum mechanics and quantum field theory, and gives a new perspective on phase transitions. I present an introduction to the basic ideas behind resurgence and several physical examples of phase transitions that can be probed this way, including the finite N approach to large N phase transitions. I also discuss new resurgent extrapolation methods that can extend asymptotic expansions throughout the complex plane.

Presenter: Prof. DUNNE, Gerald

Session Classification: Invited talks