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# Decoding the Path Integral: Resurgence and Non-Perturbative Physics

*Tuesday, 3 December 2019 16:30 (1 hour)*

There are several important conceptual and computational questions concerning the Minkowski space path integral, which have recently been approached from a new perspective motivated by "resurgent asymptotics", which is a novel mathematical formalism that seeks to unify perturbative and non-perturbative physics. In this general talk, I will introduce the
basic ideas, report on some examples in quantum mechanics and quantum field theory, and discuss future prospects.

**Presenter:** Prof. DUNNE, Gerald

**Session Classification:** Colloquium