

# The short-flow-time expansion and its applications

*Thursday 13 February 2025 09:00 (1 hour)*

The short-flow-time expansion has proved to be a critical component of the gradient flow toolkit over the last decade. This expansion serves as an operator product expansion that links composite operators at finite flow time with their renormalised counterparts and provides an important bridge between nonperturbative calculations on the lattice and their phenomenological applications. In this talk, I will review the short-flow-time expansion, discuss some of its important applications, and highlight the need for quantitative investigations of the limits of its applicability.

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