Contribution ID: **284** Type: **Parallel Talk**

Sphaleron rate as an inverse problem: a novel lattice approach

Thursday, 3 August 2023 14:10 (20 minutes)

We compute the sphaleron rate on the lattice. We adopt a novel strategy based on the extraction of the spectral density via a modified version of the Backus-Gilbert method from finite-lattice-spacing and finite-smoothing-radius Euclidean topological charge density correlators. The physical sphaleron rate is computed by performing controlled continuum limit and zero-smoothing extrapolations.

Topical area

QCD at Non-zero Temperature

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Session Classification: QCD at Non-zero Temperature