## The 33rd International Symposium on Lattice Field Theory (Lattice 2015)



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## Background field method in the gradient flow

Saturday, 18 July 2015 10:00 (20 minutes)

We develop a background field method and associated gauge fixing prescription in gradient flow equations. By using this formulation, we carry out non-diagramatic one-loop computations of the small flow time expansion of gauge invariant composite operators, aiming for the application to the energy-momentum tensor and the flavor-singlet axial-vector current on the lattice.

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