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Highly anisotropic lattices for Yang-Mills theory

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We examine the renormalized lattice spacing anisotropy in SU(2) Yang-Mills theory. We determine the physical anisotropy by performing anisotropic Wilson flow. Our preliminary findings indicate that, at high bare anisotropies, the physical anisotropy reaches a plateau. Further increase of the bare anisotropy results in a slight increase of the lattice spacings. Our findings can be then applied to the highly anisotropic lattices that have recently been utilised in real-time Yang-Mills simulations using the Complex Langevin method on complex time contours.

Topical area

QCD at Non-zero Temperature

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