## Polynomial Filtering for HMC in Lattice QCD

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Abstract: The use of short order polynomial approximations to 1/x as a UV filter for HMC is investigated. Previous work in the Schwinger model (2D QED) showed that the integration step size may be increased within a multiple time scale integration by separating the UV and IR dynamics with a polynomial filter. We test the same method within the framework of Lattice QCD.