Implementing Hybrid Monte Carlo with stout-smeared chirally improved Dirac operators.

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Abstract: We present results for dynamical Ginsparg-Wilson type fermions using a stout-smeared chirally improved Dirac operator. Such operators have been studied extensively in quenched calculations within the BGR-collaboration. Here we discuss the implementation of the Hybrid Monte Carlo algorithm with this Dirac operator. We discuss various checks of the algorithm, equilibration as well as changing topological sectors using this operator.