

## Overlap fermions on a twisted mass sea

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Abstract: We present first results of a large scale mixed action project. We analyze gauge configurations generated with two flavors of dynamical twisted mass fermions. Neuberger's overlap Dirac operator is used for the valence sector. The various choices in the setup of the simulation are discussed. By comparing to chiral perturbation theory we attempt to get the effects of using different actions in the sea and valence sector under control.