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Direct evaluation of the static force from lattice QCD

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Recently a method of measuring static force from the lattice using an insertion of chromoelectric field to an Wilson loop has been proposed to tackle the ambiguities of taking derivative of the static potential. We present the current status of testing the viability of this approach and also expand the calculation for the first time to use gradient flow, which solves the problems with the renormalization of chromoelectric field on the lattice.

Presenter: VILJAMI, Leino

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