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Gradient Flow Analysis on MILC HISQ Ensembles

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We present a final analysis of gradient flow and the associated scale w_0 measured on the $N_f = 2+1+1$ HISQ ensembles. Compared to previously reported results, we have improved the interpolation to physical quark masses using chiral perturbation theory, adjusted for variations in charm quark mass between ensembles, and derived a 'prediction' function for estimating the scale using w_0/a on new ensembles with unphysical quark masses. Additional results include a comparison of t_0/a to w_0/a and a test of agreement between the RHMC and RHMD generation algorithms.

Primary author: BROWN, Nathan (Washington University in St. Louis)

Presenter: BROWN, Nathan (Washington University in St. Louis)

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