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## A determination of the gradient flow scale on $N_f = 2 + 1$ CLS ensembles

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We determine the gradient flow scale  $t_0$  at the physical point with an overall uncertainty of around 0.5% using the  $\Xi$  baryon mass as input. We utilise 47 CLS ensembles generated with  $N_f = 2 + 1$  non-perturbatively  $O(a)$  improved Wilson dynamical fermions comprising six lattice spacings in the range  $a = 0.04 - 0.1$  fm, spatial volumes with  $LM_\pi > 4$  and pion masses ranging from around 420 MeV down to the physical point. Combined quark mass, continuum limit, and finite volume fits are performed to the baryon octet masses along three trajectories in the quark mass plane, which tightly constrains the mass of the  $\Xi$  baryon at the physical point. The strange and light quark sigma terms are determined for all octet baryons from the dependence of the baryon masses on the renormalized quark masses.

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