

Continuum extrapolated second order conserved charge cumulants using Möbius Domain Wall fermions

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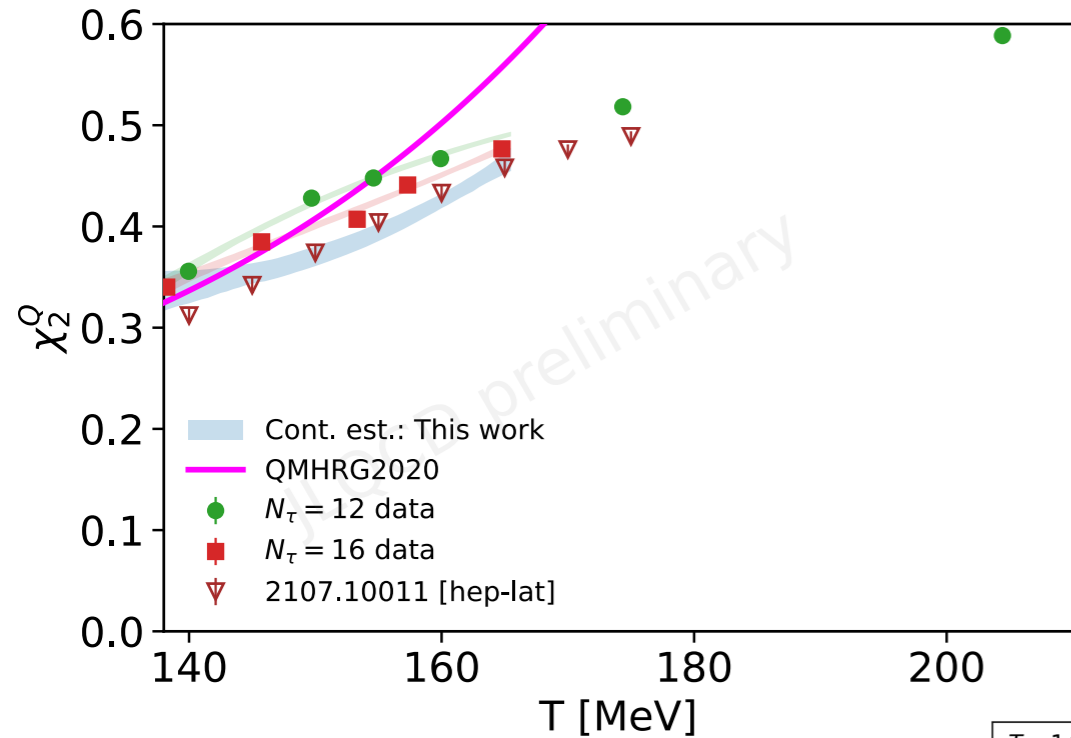
In collaboration with Y. Aoki, H. Fukaya, S. Hashimoto, I. Kanamori, and Yu Zhang
(JLQCD collaboration)



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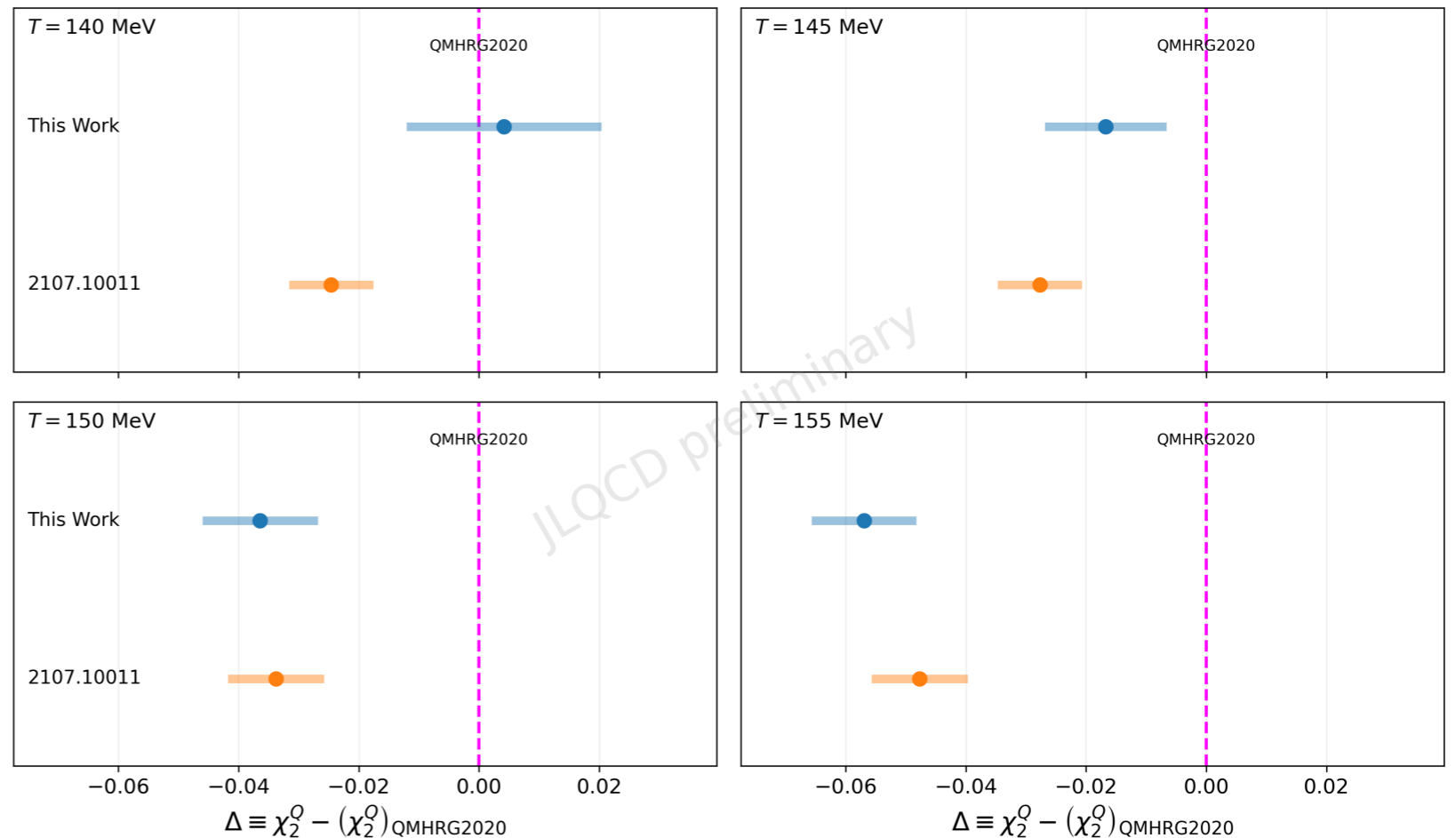
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Second-order conserved-charge cumulants are relevant for interpreting heavy-ion data at chemical freeze-out, $T_{fo} \simeq 156.5(1.5)$ MeV. Staggered-fermion results deviate from the HRG already at, $T = 140$ MeV. To disentangle physical effects from staggered-fermion discretization artifacts, we use Möbius domain-wall fermions.

MDWF and staggered-fermion results agree reasonably well for, $T \geq 145$ MeV.

At, $T = 140$ MeV the MDWF result is consistent with the HRG but in tension with the staggered result.



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