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Charmonium current-current correlators with Mobius domain-wall fermion

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We calculate the moments of charmonium current-current correlators with the Mobius domain-wall fermion. Following the method adopted by the HPQCD collaboration, we extract the charm quark mass by matching the results with the corresponding perturbative QCD calculations. We use the recently generated domain-wall fermion ensembles by the JLQCD collaboration at lattice spacings $a = 0.083$ fm, 0.055 fm and 0.044 fm.

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