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Charm physics by $N_f = 2 + 1$ Iwasaki gauge and the six stout smeared $O(a)$-improved Wilson quark actions on a 96^4 lattice

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We present our results of charm physics in $N_f = 2 + 1$ lattice QCD. Our calculation is performed on configurations generated with Iwasaki gauge and the six stout smeared $O(a)$-improved Wilson quark actions on a 96^4 lattice at $\beta = 1.82$ ($a^{-1} = 2.3$ GeV) with the spatial extent $L = 8.1$ fm. The pion mass is almost physical $m_\pi = 145$~MeV. The relativistic heavy quark action is utilized for the charm quark.
We exhibit the charmed spectrum and the charm quark mass, focusing on stout smearing influence.

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