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2+1 flavor DWF QCD and almost physical pion masses

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We are producing 2+1 flavor DWF ensembles with dynamical pion masses of 180 and 250 MeV, a volume of $(4.5 \text{ fm})^3$ and $1/a = 1.4 \text{ GeV}$, using the Iwasaki plus DSDR (Dislocation Suppressing Determinant Ratio) gauge action. Basic properties of these ensembles and their production are discussed. We report on measurements of pseudoscalar masses and decay constants on these ensembles, with valence pions as light as 145 MeV. These observables are fit to SU(2) ChPT jointly with our similar results from finer lattices using 2+1 flavor DWF plus the Iwasaki action, to get better control over the combined chiral and continuum extrapolation.

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talk

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