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Nucleon structure from RBC/UKQCD 2+1 flavor DWF dynamical ensembles at a nearly physical pion mass

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We report the status of nucleon structure calculations on the 2+1 flavor domain-wall fermions ensembles with pion masses as low as 180 MeV on a lattice with about 4.5 fm spatial extent. A combination of the Iwasaki+dislocation- suppressing-determinant-ratio (I+DSDR) gauge action and DWF fermion action allows us to generate these ensembles at cutoff of about 1.4 GeV while keeping the residual mass small, and thus allows for a lattice spatial extent of 32 lattice units or about 4.5 fm.

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talk

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