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Charmonia distribution amplitudes

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We present our ongoing work on the distribution amplitudes of the charmonia states $\eta_c(1s)$ and $J/\psi(1s)$. We use the so-called pseudo approach developed by A. Radyushkin in a set of three CLS $N_f = 2$ ensembles at three different lattice spacings between 0.08 fm and 0.05 fm and a pion mass around 270 MeV. The resulting momentum distributions can be studied in the region of Ioffe times $|\nu| < 4$, where we observe a non-trivial functional dependence which can be compared to the NRQCD expectation of a flat behaviour.

Topical area

Structure of Hadrons and Nuclei

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