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Direct lattice-QCD calculation of pion valence quark distribution

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Within the large momentum effective theory framework, we present the first direct lattice-QCD calculation of the valence quark distribution in the pion. Our results are comparable quantitatively with the results extracted from experimental data as well as from Dyson-Schwinger equation. Future calculations at physical pion mass and larger
momentum will be able to discern discrepancies in various existing analyses.

Primary author: Dr ZHANG, Jianhui (University of Regensburg)

Co-authors: Prof. SCHAEFER, Andreas (University of Regensburg); Prof. LIN, Huey-Wen (MSU); Prof. CHEN, Jiunn-Wei (National Taiwan University); Dr JIN, Luchang (BNL); Dr YANG, Yi-bo (Michigan state university); Dr ZHAO, Yong (Massachusetts Institute of Technology); Mr LIU, Yu-Sheng (University of Washington)

Presenter: Dr ZHANG, Jianhui (University of Regensburg)

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