Abstract Submitted
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The Mellin Momentsxandx[2] $for the Pion and Kaon from Lattice QCD$[1]
COLIN LAUER, Temple University, CONSTANTIA ALEXANDROU, SIMONE BACCHIO, University of Cyprus, The Cyprus Institute, MARTHA CONSTANTINOU, Temple University, KYRIACOS HADJIYIANNAKOU, University of Cyprus, The Cyprus Institute, GIANNIS KOUTSOU, The Cyprus Institute, EXTENDED TWISTED MASS COLLABORATION COLLABORATION — We present a calculation of the pion and kaon second and third Mellin moments, $\langle x \rangle$ and $\langle x^2 \rangle$, within lattice using twisted mass formulations. The ensemble we use corresponds to a pion and kaon mass of 260 MeV and 530 MeV, respectively. Systematic errors due to excited states are investigated and controlled using different methods. We compare with other studies and available experimental and phenomenological data.

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