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The Orbital Angular Momentum Sum Rule FATMA ASLAN, MATTHIAS BURKARDT, NMSU — As an alternative to the Ji sum rule for the quark angular momentum, a sum rule for the quark orbital angular momentum, based on a twist-3 generalized parton distribution, has been suggested. We study the validity of this sum rule in the context of scalar Yukawa interactions as well as in QED for an electron.

Fatma Aslan NMSU

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