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The Orbital Angular Momentum Sum Rule FATMA ASLAN, MATTHIAS BURKARDT, New Mexico State University — 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.

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