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.

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