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Transverse Structure of the Nucleon in SIDIS SAMAN BASTAMI, PETER SCHWEITZER, Univ of Connecticut - Storrs — Transverse momentum-dependent parton distribution functions (TMDs) provide a powerful tool to probe the internal quark-gluon structure beyond what is known about the longitudinal momentum distributions of quarks and gluons from collinear parton distribution functions. Information on TMDs can be accessed in semi-inclusive deep-inelastic scattering and similar reactions, and will shed new light on the transverse structure of the nucleon including transverse spin and transverse momentum distributions. In this talk we discuss the description of SIDIS data in the so-called Wandzura-Wilczek-type approximation. Our predictions will be tested in future experiments at Jefferson Lab.

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