

Physics Division Seminar

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**Combining Transverse Momentum Dependent and
Collinear Factorization in Studying the Partonic
Structure of the Nucleon**

Host: Whitney Armstrong

Monday, December 2, 2019 – 203, R150, 3:30 PM

In this talk I will present work on relating transverse momentum dependent (TMD) and collinear factorization formalisms in a generalized framework. I will focus on the case of transversely polarized observables such as the Sivers effect. I will also discuss the validity of the well-known relations, such as between the weighted TMD Sivers function and the collinear twist-3 Qiu–Sterman function, and their use in phenomenological studies of the 3-D structure of hadrons.