

# UCLA Nuclear Physics Seminar

## “The (spin) structure of the nucleon beyond the Parton Model”

Presented by Marc Schlegel  
*New Mexico State University*

I will provide a brief review on the structure of the nucleon. In particular, I will discuss methods to access the nucleon structure beyond the parton model. This gives more detailed information on the 3-d structure as well as dynamics of partons in the nucleon. One generalization of the collinear parton model is Transverse Momentum Dependent (TMD) factorization. I will focus on gluon TMD distributions that may be constraint by data taken at the LHC. Another way to get more insight into the nucleon structure is to study transverse spin effects. I will present some examples to illustrate these effects.

Location: Knudsen 4-134

Date: Friday, August 10, 2018

Time: 12:00pm