**Physics Seminar**

**Mark Strikman**

**Pennsylvania State University**

*“Resolving short range correlations in nuclei using high energy probes: status and perspectives”*

**Abstract:**

*Hard high energy processes prove unique tools for resolving short-range correlations (SRC) in nuclei at several short space-time scales. This includes a precision determination of the nucleonic structure of two and three nucleon SRCs, and probing their quark – gluon structure. Since the high energy processes develop along the light cone the use of such processes requires development of the relativistic approaches for description of nuclei which resemble the QCD framework for description of quark-gluon structure of hadrons in QCD. We summarize the progress in the understanding of short-range nuclear structure of the last decade which is primarily due to the Jlab experiments. We outline several directions for the further studies of SRCs at Jlab which may lead to a series of new discoveries. Complementary studies in pA collisions at the LHC are also summarized.*

**Monday, December 08, 2014**

**11:00 am**

**CEBAF Auditorium**