

理化学研究所原子核セミナー 2005. 7. 11

講師： **Dr. Mickey Chiu**

( University of Illinois )

題目： **Sivers Measurement Using Back to Back di-Hadrons**

\* The seminar will be given in *English*.

日時： 2005 年 7 月 11 日 (Mon.) 14:00 -

場所： RIKEN Main Bldg. 2F Seminar Room

### *Abstract*

The Relativistic Heavy Ion Collider (RHIC) at Brookhaven National Lab is a truly uniquely flexible collider, capable of colliding a wide range of heavy ion species as well as longitudinally and transversely polarized protons. Thus, besides the program of Heavy Ion Physics, there is a rich Spin Physics program which vastly expands the space of QCD phenomena which can be explored at RHIC. In particular, large non-zero single spin asymmetries have been measured at RHIC and might provide access to a deeper understanding of nucleon structure, such as the orbital angular momentum of partons. Currently, these large asymmetries are thought to come either from higher-twist contributions, modifications to the parton distribution functions (Sivers), modifications to the fragmentation functions (Collins), or even perhaps some combination of the three. Future progress will require separating these effects. We discuss future prospects with the PHENIX detector for reducing these ambiguities in inclusive single spin asymmetries by looking at correlations between hadrons from the same and from back to back jets.

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原子核セミナーについてのお問い合わせ

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