

LA-UR-10- 10-01380

Approved for public release;  
distribution is unlimited.

*Title:* Investigating the Spin Structure of the Proton at RHIC

*Author(s):* Christine A. Aidala

*Intended for:* Seminar at the Deutsches Elektron Synchrotron (DESY),  
Germany



Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by the Los Alamos National Security, LLC for the National Nuclear Security Administration of the U.S. Department of Energy under contract DE-AC52-06NA25396. By acceptance of this article, the publisher recognizes that the U.S. Government retains a nonexclusive, royalty-free license to publish or reproduce the published form of this contribution, or to allow others to do so, for U.S. Government purposes. Los Alamos National Laboratory requests that the publisher identify this article as work performed under the auspices of the U.S. Department of Energy. Los Alamos National Laboratory strongly supports academic freedom and a researcher's right to publish; as an institution, however, the Laboratory does not endorse the viewpoint of a publication or guarantee its technical correctness.

## Investigating the Spin Structure of the Proton at the Relativistic Heavy Ion Collider

Christine A. Aidala  
Los Alamos National Laboratory

A myriad of new techniques and technologies made it possible to inaugurate the Relativistic Heavy Ion Collider (RHIC) as the world's first high-energy polarized proton collider in December 2001. Since then the RHIC spin program has ramped up, adding a new dimension to the field of nucleon structure, traditionally explored via electromagnetic probes. Using strongly interacting probes offers both new challenges and new opportunities. An overview of the program to study proton structure at RHIC will be presented, and highlights of recent results will be shown.