

Beams and Applications Seminar Series

This ANL seminar series is a CARA activity and focuses on the physics, technology and applications of particle and photon beams. It is sponsored jointly by the ASD Division, the AWA group of the HEP Division, and the ATLAS group of the PHY Division.

Bldg. 401, room B2100

Friday, October 4

1:30 PM

Jerry Feldman

**George Washington
University**

*Introduction to Compton
Backscattered Polarized Photon
Facilities*

Host: Kwang-Je Kim

The head-on collision of a polarized laser photon with a multi-GeV electron leads to a backscattered highly-energetic polarized photon that can readily be used to initiate photonuclear reactions. Such a process is already exploited in the U.S. (LEGS at NSLS in Brookhaven), Europe (GRAAL at ESRF in Grenoble) and Japan (LEPS at SPring-8 in Osaka). These facilities have firmly established the viability of this method for investigating photonuclear physics at intermediate energies. This talk will serve as a general introduction to the production of such polarized beams, the detector systems used in the experiments, and the physics that can be explored with these tools.

For more information visit

<http://www.aps.anl.gov/asd/physics/seminar.html>

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