

## The Beams and Applications Seminar Series

# Super- and Normal Conducting RF for Cornell ERL Injector

**Dr. Sergey Belomestnykh, Cornell University**

**Bldg. 401, Room A1100**

**Thursday, August 19, 1:30 PM**

Host: Ali Nassiri

A prototype of the ERL injector, under commissioning at Cornell University, is the first step toward future X-ray light source based on the Energy Recovery Linac (ERL). The injector is based on a superconducting RF linac, consisting of five 2-cell cavities housed in a cryomodule. Two normal conducting cavities are used for bunching particles after a DC photocathode gun and deflecting them for beam diagnostics in conjunction with other instruments to measure low-emittance beam parameters. All cavities operate at 1300 MHz. In this talk we will describe design of RF systems and discuss commissioning results and operational experience.

### **For more information visit**

[http://aps.anl.gov/News/Meetings/Beams\\_and\\_Applications\\_Seminars/](http://aps.anl.gov/News/Meetings/Beams_and_Applications_Seminars/)

Visitors from off-site please contact Carmen Nolasco  
([mnolasco@aps.anl.gov](mailto:mnolasco@aps.anl.gov), 630-252-6159) to arrange for a gate pass.