

ACCELERATOR SEMINAR

“The SuperB Accelerator: Design and Update”

***Michael Sullivan,
SLAC National Accelerator Laboratory***

The success of the two major B-factories (PEP-II and KEKB) has prompted an interest in developing a new B-factory, one with 100 times more luminosity. The SuperB design is a proposed super B-Factory to be located near Frascati, Italy. The accelerator design uses low emittance beams, low beta functions at the interaction point, a large crossing angle collision and a “crabbed waist” collision point scheme to achieve a luminosity of $1 \times 10^{36} \text{ cm}^{-2}\text{s}^{-1}$. The currents are comparable to present day B-factories (1-2 A). I will show the present accelerator design with emphasis on the interaction point design and summarize the status of the project.

**Tuesday, January 26, 2010
3:30 p.m. – 4:30 p.m.
CEBAF Center, Room F113**

**Coffee before Seminar
Beginning at 3:00 p.m.**