

The Beams and Applications Seminar Series

Interbeam scattering studies at CEsrTA

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**Bldg. 401, Room B-4100
Monday June 18, 10:30 am**

Host: Kwang-Je Kim

We report on investigations of intrabeam scattering (IBS) being conducted at CEsrTA. CEsrTA is a 768 m electron/positron storage ring. It has been instrumented to measure accurately the properties in all three dimensions of bunches with charges ranging from 0.10 nA to 10.0 nA (1.6×10^9 to 1.6×10^{11} particles/bunch). Vertical emittances range from sub-10 pm to 150 pm and higher. These experimental investigations have allowed us to sort through the various IBS theories, leading to the development of a model that gives good agreement with the data. We describe the IBS instrumentation and experiments being conducted at CEsrTA and the model we have developed.

For more information visit

http://aps.anl.gov/News/Meetings/Beams_and_Applications_Seminars/

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(mnolasco@aps.anl.gov, 630-252-6159) to arrange for a gate pass.