

The Beams and Applications Seminar Series

Advances in modeling coherent synchrotron radiation

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**Bldg. 401, Room B-4100
Wednesday August 8, 3:00 pm**

Host: Michael Borland

This talk describes a new parallel 3D Lienard-Wiechert code (CSR3D), and a new algorithm for computing 1D CSR effects. The 3D Lienard-Wiechert code has been used as a tool of discovery to explore shot noise effects, 3D effects, and CSR enhancement due to microbunching. The 1D CSR algorithm is based on an Integrated Green function approach, and as a result is very robust and able to efficiently model short-range effects.

For more information visit

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

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