

The Beams and Applications Seminar Series

Laser Ion Source for Highly Charged Ions

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Bldg. 401, Rm. B2100
Friday, July 20, 1:30 pm
Host: Jerry Nolen, PHY

Abstract: A laser ion source (LIS) is able to generate intense (10 – 100 mA) pulsed (1 – 100 μ s) beams of highly-charged ions of nearly all the elements listed on the periodic table. LIS generated beams are well matched to the requirements of single turn injection into synchrotrons and FFAG rings. A brief history of LIS development will be presented. The main physical processes in laser-produced plasma, extraction and transportation of space-charge dominated ion beams will be discussed together with multiple LIS technical aspects. The latest progress in LIS development and examples of source implementation to accelerators will be highlighted.

For more information visit

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

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