APS Upgrade, short x-ray pulses and more

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SEMINAIRE

Vendredi 11 septembre 2015 – 14h
Petit Amphi – Bat. Accueil SOLEIL

After a brief review of the APS Upgrade plan, I will discuss generation of sub-picosecond x-ray pulses at synchrotrons and development of a novel rf deflecting cavity driven by this aim. In the second part, I will discuss a high repetition rate collinear wakefield accelerator, highlighting many challenging aspects of its design and consider application of this accelerator for free-electron lasers.

Alexander Zholents *is a Director of the Accelerator Systems Division at Argonne National Laboratory. He was educated in Russia and got his Ph.D. from Budker Institute for Nuclear Physics in Novosibirsk. His recent research interests are focused on design, construction, commissioning and operation of synchrotron radiation sources and x-ray free-electron lasers. Before coming to Argonne Lab, he was a senior scientist at Lawrence Berkeley National Laboratory where he worked on several projects including PEP-II B-factory, beam conditioning and cooling, generation of the ultra-short x-ray pulses, and free-electron lasers. He is the recipient of the Klaus Halbach award in 2000 for innovative instrumentation, a Fellow of the American Physical Society, and a senior scientist of the Russian Academy of Science.*

Ce séminaire sera suivi d'une pause café

Formalités d'entrée : accès libre dans l'amphi du pavillon d'Accueil.
Si la manifestation a lieu dans le Grand Amphi SOLEIL du Bâtiment Central merci de vous munir d'une piece d'identité
(à échanger à l'accueil contre un badge d'accès)

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