

ANL APS-U SPX LLRF System*

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The Short-Pulse X-ray (SPX) system within Argonne National Laboratory's (ANL) Advanced Photon Source Upgrade (APS-U) project will use Zholents' transverse radio-frequency (rf) chirp scheme to produce picosecond time-scale x-ray pulses at the APS. This scheme will utilize two sets of superconducting rf deflecting cavities installed in the APS storage ring: one set to produce transverse beam motion and the second set to cancel the motion. The requirements, plans, and status of the SPX LLRF system will be presented.

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Primary author: BERENC, Tim (Argonne National Laboratory)

Presenter: BERENC, Tim (Argonne National Laboratory)

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