

ACCELERATOR SEMINAR

“DC-SRF photoinjector at Peking University”

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DC-SRF electron injector, which combines a DC Pierce gun and a 3.5-cell 1.3 GHz superconducting cavity in a cryomodule, has been developed at Peking University. Based on the improvements of beam line, LLRF system and 2K cryogenic system, stable operation of the DC-SRF injector has been carried out recently. Electron beams with 3.4 MeV energy and the currents of $\sim 1\text{mA}$ in a macro-pulse mode was obtained. As the first application of this DC-SRF injector, THz radiation produced with a 10 period undulator was detected. As another application, ultrafast electron diffraction (UED) was successfully carried out with DC-SRF injector.

Wednesday, May 13, 2015
11:00 a.m.
CEBAF Center, Room F224-225

Coffee before seminar beginning at 10:45 a.m.