



Contribution ID: 25

Type: **Oral presentation**

## High Power RF System Status and Experience for the PLS-II Storage Ring

*Tuesday, 13 May 2014 14:00 (30 minutes)*

The RF system of the Pohang Light Source-II (PLS-II) storage ring is operating at the 3.0 GeV/300 mA with three superconducting RF (SRF) cavities. PLS-II RF system was upgraded to 3.0 GeV/400 mA(max.) beam storage from 2.5 GeV/ 200mA of PLS. Each high power RF (HPRF) station is composed of a 300 kW klystron with power supply unit, transmission components including a 350 kW circulator and load, and water cooling system. Also three digital type LLRFs, three cryomodules with SRF cavities, and a cryogenic system are operating with HPRF system for the PLS-II storage ring. This paper describes the present operation status of 300 kW HPRF system and experiences of the former PLS 75 kW HPRF system.

*Supported by the Ministry of Science, ICT and Future Planning in Korea\*[mhchun@postech.ac.kr](mailto:mhchun@postech.ac.kr)*

**Primary author:** CHUN, Myunghwan (PAL(Pohang Accelerator Laboratory)/POSTECH)

**Co-authors:** Dr YOUNG-DO, JOO (PAL); Dr BYUNG-JOON, LEE (PAL); Dr CHONG-DO, PARK (PAL); Mr HONG-JIP, PARK (PAL); Mr IN-SOO, Park (PAL); Mr YOUNGUK, SOHN (PAL); Mr INHA, Yu (PAL)

**Presenter:** CHUN, Myunghwan (PAL(Pohang Accelerator Laboratory)/POSTECH)

**Session Classification:** Tuesday afternoon 1

**Track Classification:** SPC judgements