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## Status of the High Intensity Cyclotron RF-System at PSI

*Friday 24 June 2016 09:00 (30 minutes)*

In the High Intensity Proton Accelerator (HIPA) facility at PSI, protons are accelerated in the injector cyclotron to 72MeV and afterwards in the Ring cyclotron to 590 MeV. The routine operation of the facility is at a current of 2.2 mA with tests regularly up to 2.4 mA. In both separated sector cyclotrons, the main acceleration is done by 50 MHz cavities. For flat-topping, an additional 3rd harmonic cavity is installed.

This talk will report on the operational experience of the rf-system with an emphasis on the amplifiers. Those are 20 to 30 years old tetrode based amplifier chains and feed up to 600kW CW into each main cavity.

### Summary

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**Session Classification:** Tetrodes and miscellanea