



ID de Contribution: 93

Type: **Non spécifié**

J-PARC Hadron Facility

The J-PARC Hadron Facility is designed as a multipurpose experimental facility for a wide range of particle and nuclear physics programs. It will provide world highest intensity secondary beams produced by 50GeV-15microA (750kW) primary proton beam on a production target of 30% interaction length. The target consists of nickel disks directly cooled by water to cope with the beam deposited heat. To handle the beam line components under high radiation environment, radiation hardened magnets and remote maintenance system have been developed. The Hadron Experimental Hall was completed in July 2007, and the first primary beam has been successfully extracted and transported to the beam dump on Jan. 27, 2009. Currently three secondary beam lines (K1.8, K1.8BR, and KL) come into operation, and the new beam line (K1.1BR) will be completed in the early summer of 2010. The poster reports the current status and beam commissioning of the facility.

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