

Physics in J-PARC Hadron-hall extension

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The Hadron Experimental Facility (HEF) of the Japan Proton Accelerator Research Complex (J-PARC) provides the world highest intensity hadron beams, such as kaons, pions, and so on, for various experimental researches in particle and nuclear physics. Currently, HEF operates two charged and one neutral secondary beam lines, K1.8, K1.1, and K0, sharing secondary beams produced at a primary target, T1. In addition, a high-momentum beam line is being constructed, which is branched from the primary beam line to deliver a fraction of the primary proton beam. We have a plan to extend HEF and construct a several new beam lines, which would enhance physics opportunities at HEF. I will introduce a floor plan of extended HEF and physics scopes.

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