ASEPS: ASia-Europe Physics Summit



ID de Contribution: 95 Type: Non spécifié

Nuclear and Particle Physics Experiments at J-PARC

The J-PARC Hadron Hall has been completed in January 2009, aiming to provide the hadron beams with the world-highest intensity. The poster will provide an overview on the nuclear and particle physics experiments that will be performed at the hall. One of the main topics is to investigate the origin of matter constitution by studying the structure of sub-atomic particles. Experimental researches of hypernuclei and new hadronic states will explore the interactions between elementary particles. Intensive measurements of di-lepton decays of vector mesons are planned to understand the origin of mass by the mechanism of spontaneous chiral-symmetry breaking. A new experiment to measure the rare decay of neutral kaon to search for the new source of CP violation to explain the dominance of matter over antimatter in the universe is also under construction. This presentation also reports the recent results of the commissioning for the existing three beam lines.

Auteurs principaux: Dr NARUKI, Megumi (KEK); Prof. KOMATSUBARA, Takeshi (KEK)

Orateur: Prof. KOMATSUBARA, Takeshi (KEK)