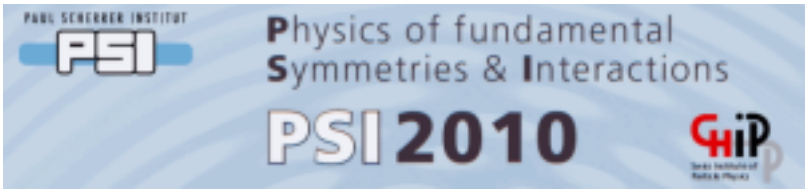

Contribution ID: **96** Type: **Oral**

Production of UCN at J-PARC

Monday, 11 October 2010 17:30 (15 minutes)

The application of the pulsed proton beam from the Japan Proton Accelerator Research Complex (J-PARC) to produce ultracold neutrons is proposed for the measurement of the electric dipole moment of neutrons. An active optics synchronized with the UCN time-of-flight is proposed to suppress the decrease of the spatial UCN density on transporting the instantaneously dense UCNs into a remote storage volume. We report the study of the active transport optics and the design of the UCN system.

Primary author: Prof. SHIMIZU, Hirohiko (KEK)

Presenter: Prof. SHIMIZU, Hirohiko (KEK)

Session Classification: Session Mo - 4

Track Classification: Advanced ultracold neutron sources