

Status and plan of testbeam line at KEK

Tuesday, 3 December 2024 11:40 (20 minutes)

At KEK an electron test beam facility with beam momentum up to 5 GeV has been established since 2022. Usually the beam is available for sensor testing for three periods (May-June, Oct-Dec and Feb-Mar) in each year in total about 5.5 months. The beam rate at 3 GeV is more than 2 kHz with beam spot size of 2 cm (1 cm) in horizontal (vertical) direction in RMS.

We have a plan to improve the focusing the electron test beam line by modifying the beam transfer magnet configuration. We will discuss the plan and recent updates on the test beam line tracking system.

Also we have started to discuss a hadron test beam line at KEK Tokai campus (J-PARC). A test measurement is scheduled to verify there is enough amount of charged pion for a hadron test beam line. We will discuss these plan and prospect of the hadron test beam line.

Type of presentation (in-person/online)

in-person presentation

Type of presentation (I. scientific results or II. project proposal)

I. Presentation on scientific results

Author: ENARI, Yuji (KEK High Energy Accelerator Research Organization (JP))

Co-author: OKAZAKI, Yuta

Presenter: ENARI, Yuji (KEK High Energy Accelerator Research Organization (JP))

Session Classification: WG5 - Characterization