

## J-PARC Hadron Hall : EXPERIMENTAL REPORT on RUN# 78

		Date(submitted)	2018/02/28
Group	E03	Beam line	K1.8
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### Summary and Results

#### (1)K<sup>-</sup> Beam tune and detector commissioning: 3.5h

Parameters of secondary beam line were optimized for the E03 condition. Before this beamtime, we changed KURAMA spectrometer setup for the E40 experiment. Therefore, we checked performance of KURAMA detectors with actual kaon beam.

#### (2)Ge detector performance and background level check w/ various detector position: 16.0h

We accumulated data to check position dependence of the Ge detector performance (live time with actual beam condition) by moving Ge detector horizontally and vertically. We obtained all of the planned data set for this study. We also took data (partly) for study of background level in Ge energy spectrum. These data will be used for E03 optimization.

### SCHEDULED and EXECUTED MACHINE TIME, BEAM CONDITION, DOWN TIME, Priority etc.

**Scheduled time:** 2h (1/27 22:00 – 1/28 0:00) + 16h (2/1 0:00 – 2/1 16:00)

**Executed time:** 2.5h (1/27 21:35 – 1/27 23:59) + 17h (1/31 22:42 – 2/1 15:45)

**Down time:** ~25 min.

#### Beam condition:

ACC power: 44.5 kW (1/27), 50.8 kW (1/31)

Secondary beam momentum: -1.8 GeV/c

Secondary beam intensity: K<sup>-</sup>=400k/spill, π=100k/spill (typical)

### Comments/Requests