NA62 GTK Beam Test Overview

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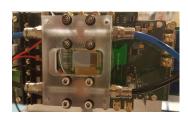
EP-ESE-FE Group, CERN

 12^{th} April 2018

GTK Beam Telescope



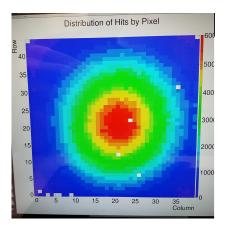
- ▶ Up to 4 planes
- ightharpoonup size $\sim 60\,\mathrm{cm} \times 100\,\mathrm{cm}$
- ▶ weight < 25 kg</p>
- requested a motorised table
- ► small chiller nearby + PSU crate



- ► TDCPix single chip assembly
 - $ho \sim 1.2\, \text{cm} \times 1.35\, \text{cm}$
- silicon hybrid pixel detector
- p-on-n and n-on-p sensors
 - possibly some other variants
- some pre-irradiated samples
- ▶ Time resolution: \sim 150 ps

Beam Profile

- charged hadrons at 180GeV/c
- $ightharpoonup > 10^4$ particles per spill
- ▶ Spot $\sim 1 \, \text{cm} \times 1 \, \text{cm}$ is perfect
- need a "spill warn" signal



Services Required

- "DESY" stage (reserved)
- ▶ power (220V)
- network
- beam shape, position, intensity measurements
- safety earth connection.