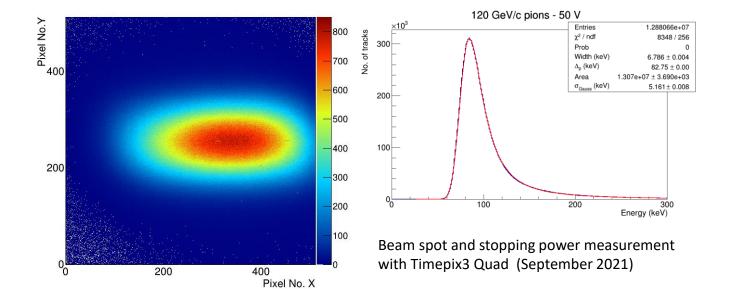
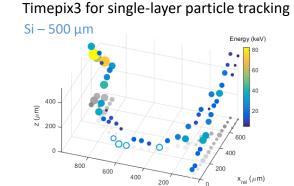
## Medipix beam test

Benedikt Bergmann on behalf of the Medipix team at the Institute of Experimental and Applied Physics

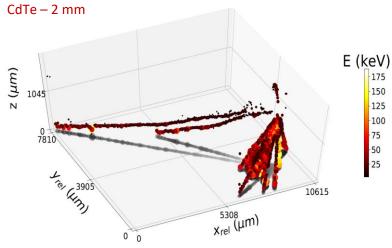
### Motivation - Addressed detector development

- Characterization of different sensor materials (3D, GaAs:Cr, CZT, ...)
- Test of Timepix2/3 based detector for space application
- Timepix4 R/O system
- Characterization of the response of ATLAS-Timepix3
- Test of software for real-time analysis and data compression





Event characterization using Timepix3 as solid-state TPC



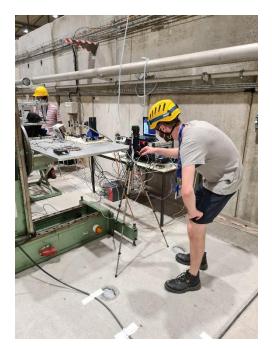
# Beam and infrastructure requirements

### **Beam requirement:**

Hadrons with energy > 80 GeV/c

#### **Infrastructure requirement:**

- Moveable table (e.g. DESY)
- Standard table for PCs, readout, voltage source
- (Beam trigger)



SPS 2021- Setup August

