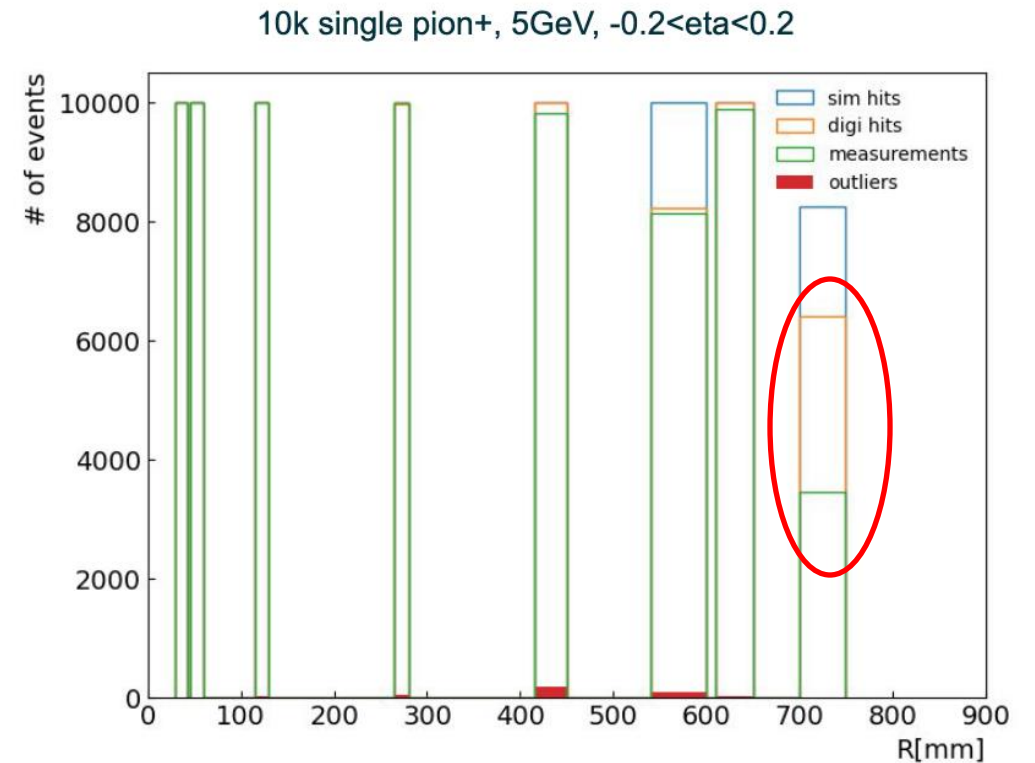


## ❑ Open Tasks

- $\mu$ RWELL-BOT issue in **digi** -to-**measurements**
  - About half of **digi hits** (yellow) do not make it into track fitting (**measurements**/green) – reason not known
  - **Task**: evaluate residual between reco hit and propagated track



Shujie: [Tracking Meeting \(9/12/24\)](#)

## ❑ Open Tasks

- Implement MPGD detector response into simulation that is based on test beam data
  - Work plan formulated based on meeting between Markus and Makoto
  - **Task:** Compare more realistic GEANT simulation with the current one
    1. Use G4 EM option #4 (physics lists)
    2. Limit G4 step size, e.g.  $\sim 1/10$  gap size, to allow multiple depositions per trajectory
    3. Set production threshold  $\sim 10 \mu m$
    4. For low energy ( $\sim 10 \text{ eV} < E < 15 \text{ MeV}$ ) [PenG4](#) can be used with G4
  - **Task:** Correlate energy deposition to parameterized measurements to achieve realistic performance: spatial resolution, efficiency, timing resolution, strip multiplicity...
- Replace pixels with readout strips