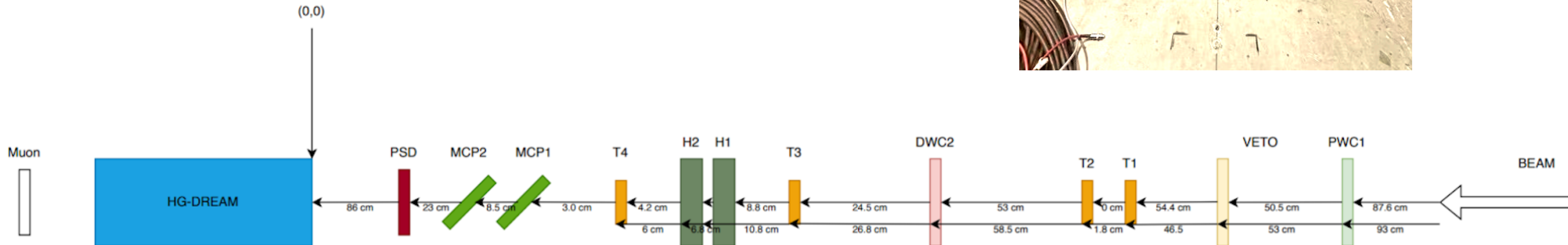


Test Beam Updates

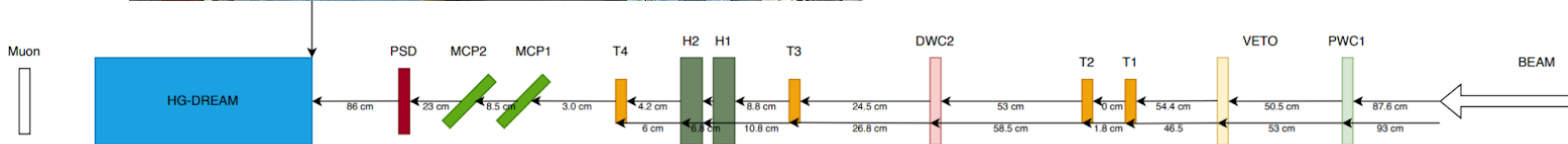
08/27/2025

Test Beam

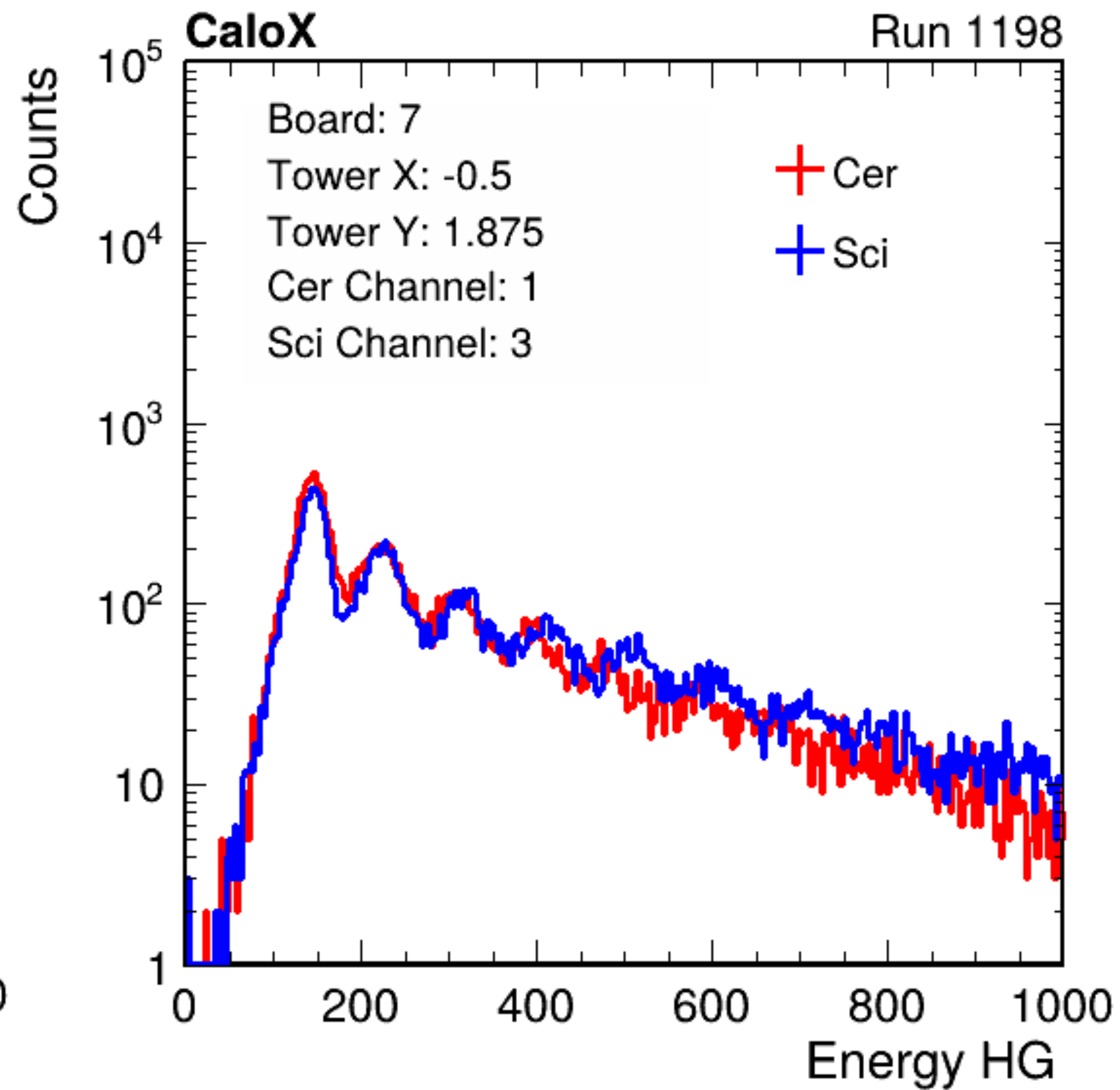
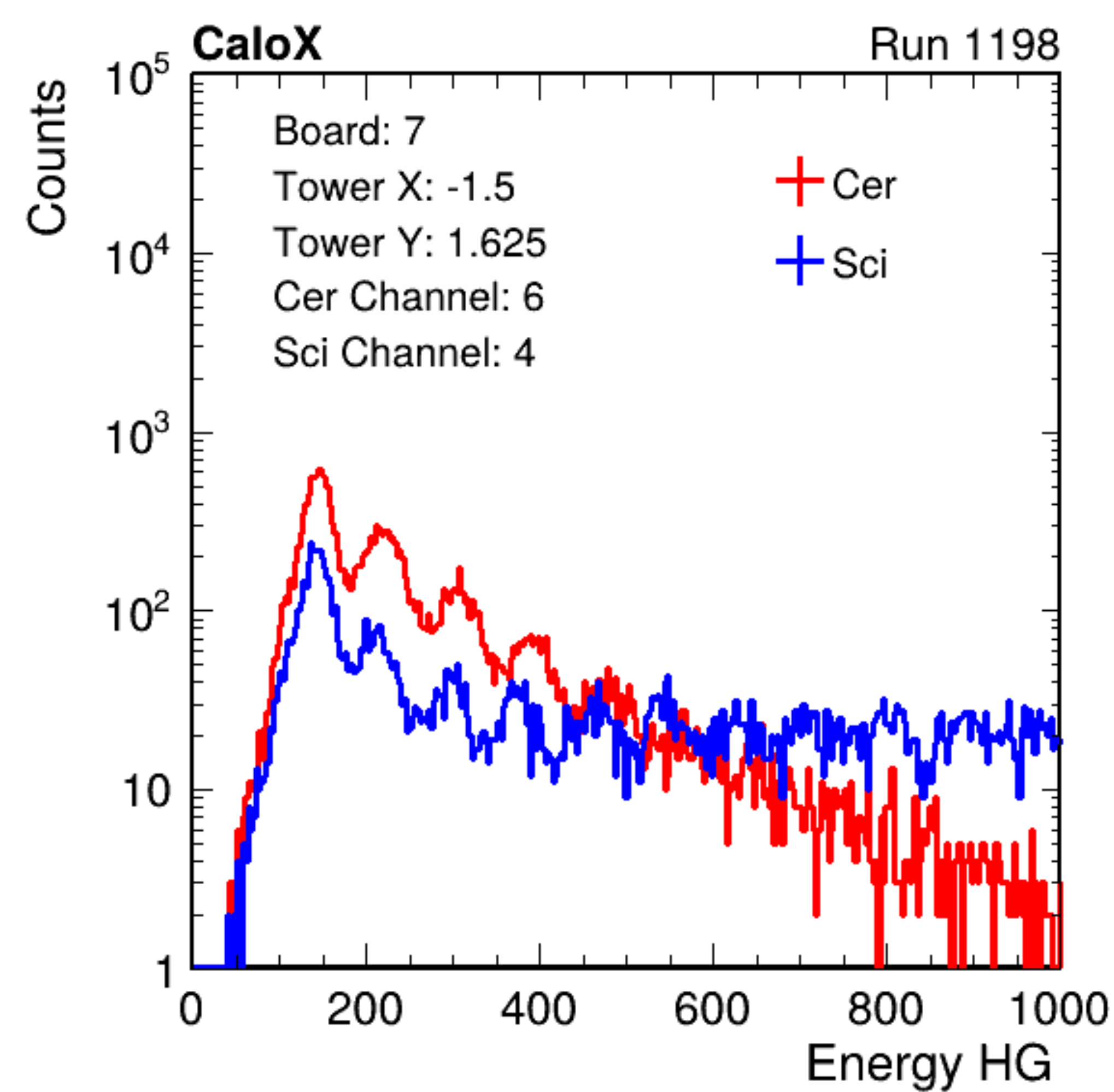
- First week of test beam for fiber HCal performed last week (August 13th - August 20th)
- Collected around 1.3M positron events and 500K pion events
 - ❖ Raw number, before any selections
 - ❖ Pion energy from 40GeV to 180GeV
 - ❖ Electron energy from 10GeV to 160GeV
 - ❖ ~600GB of data in total for test beam
- Second week scheduled around the end of September



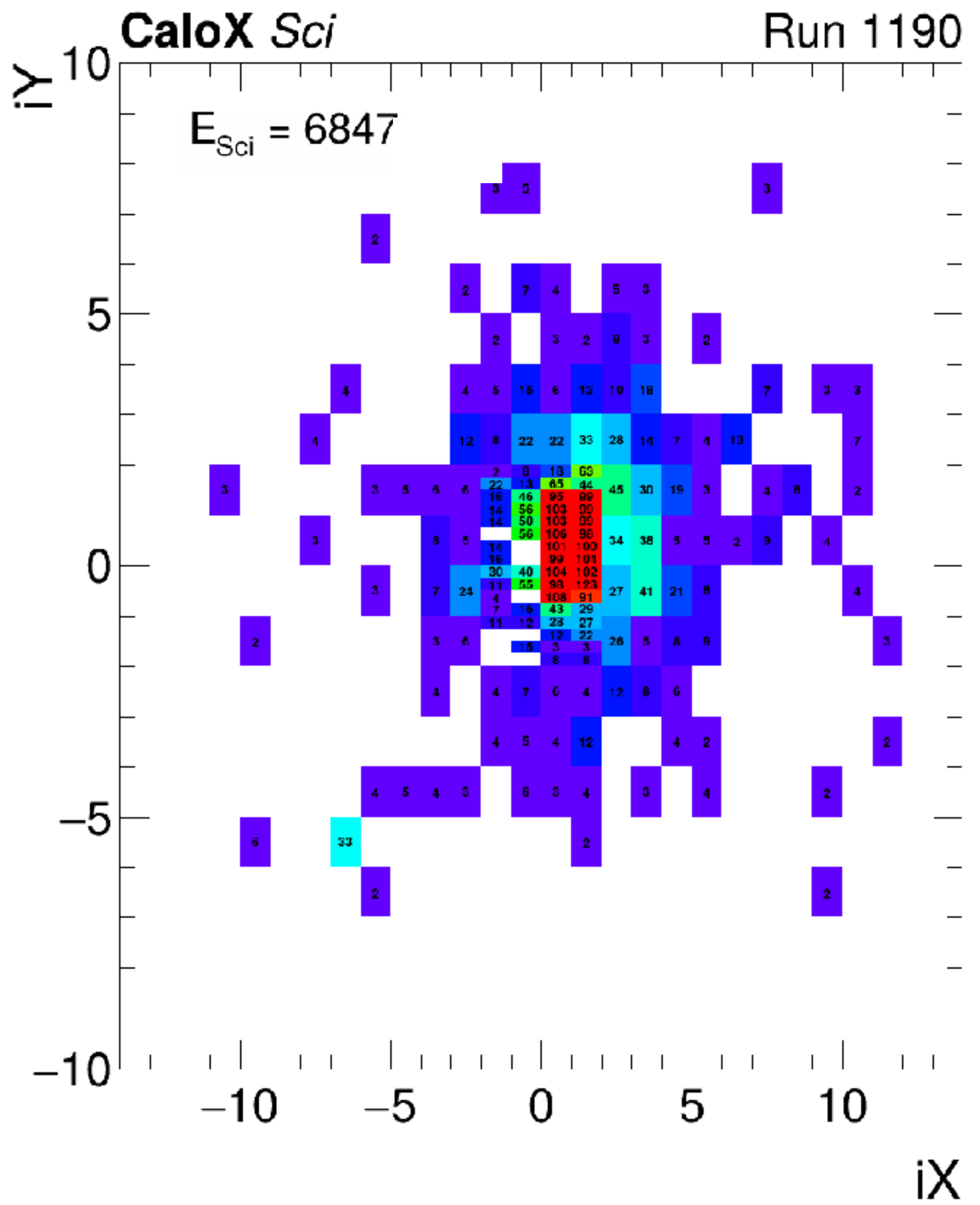
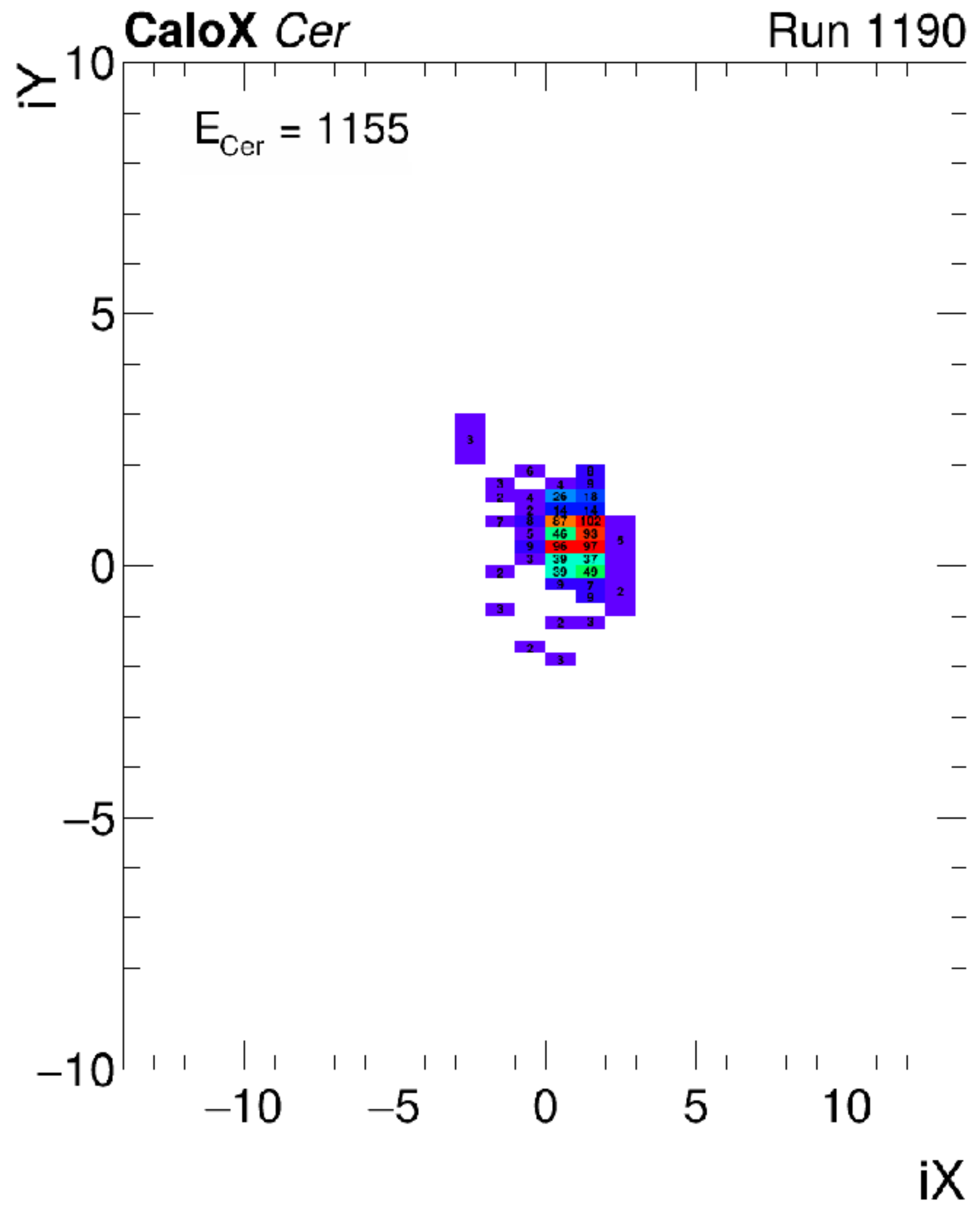
Test Beam



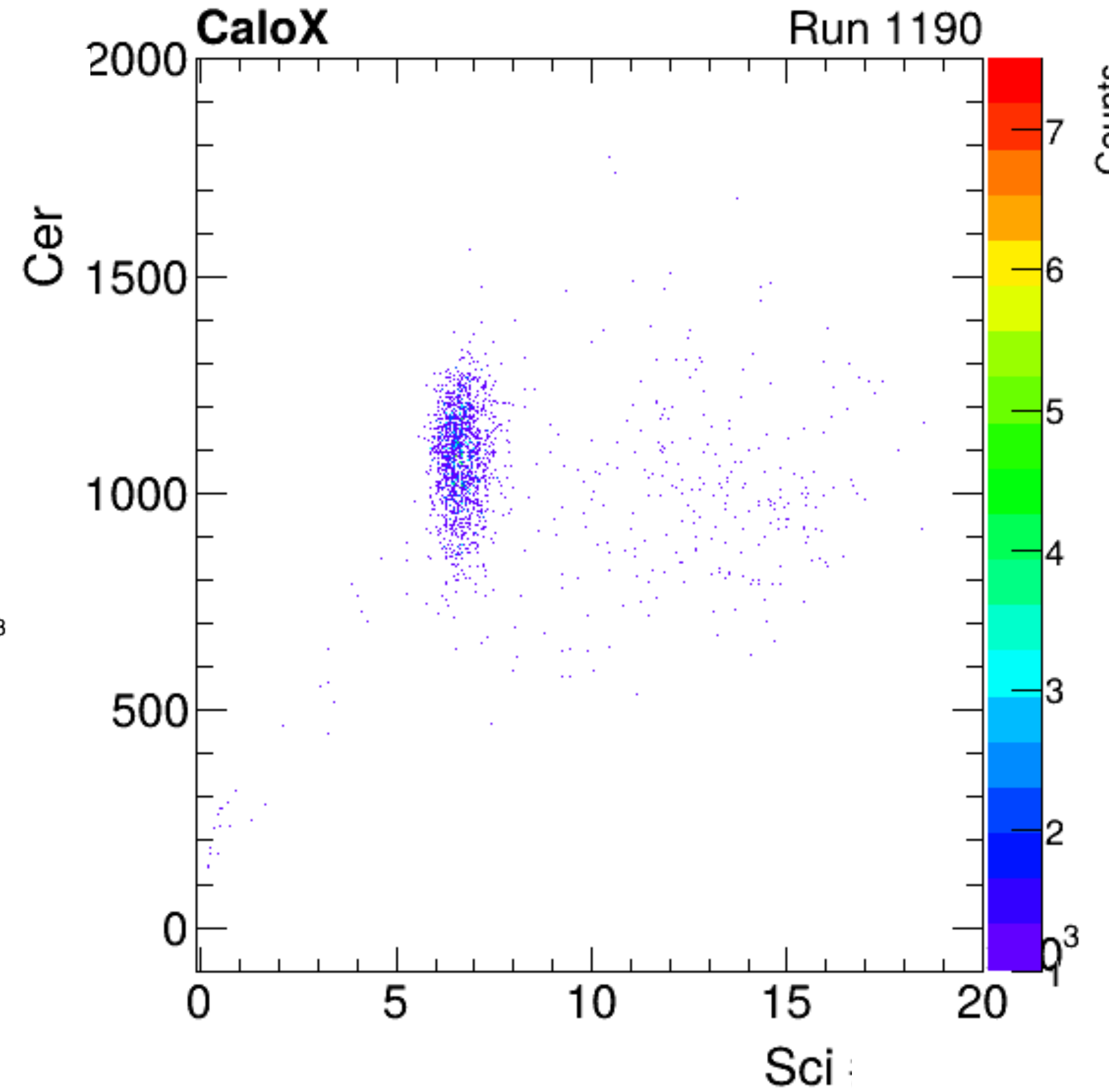
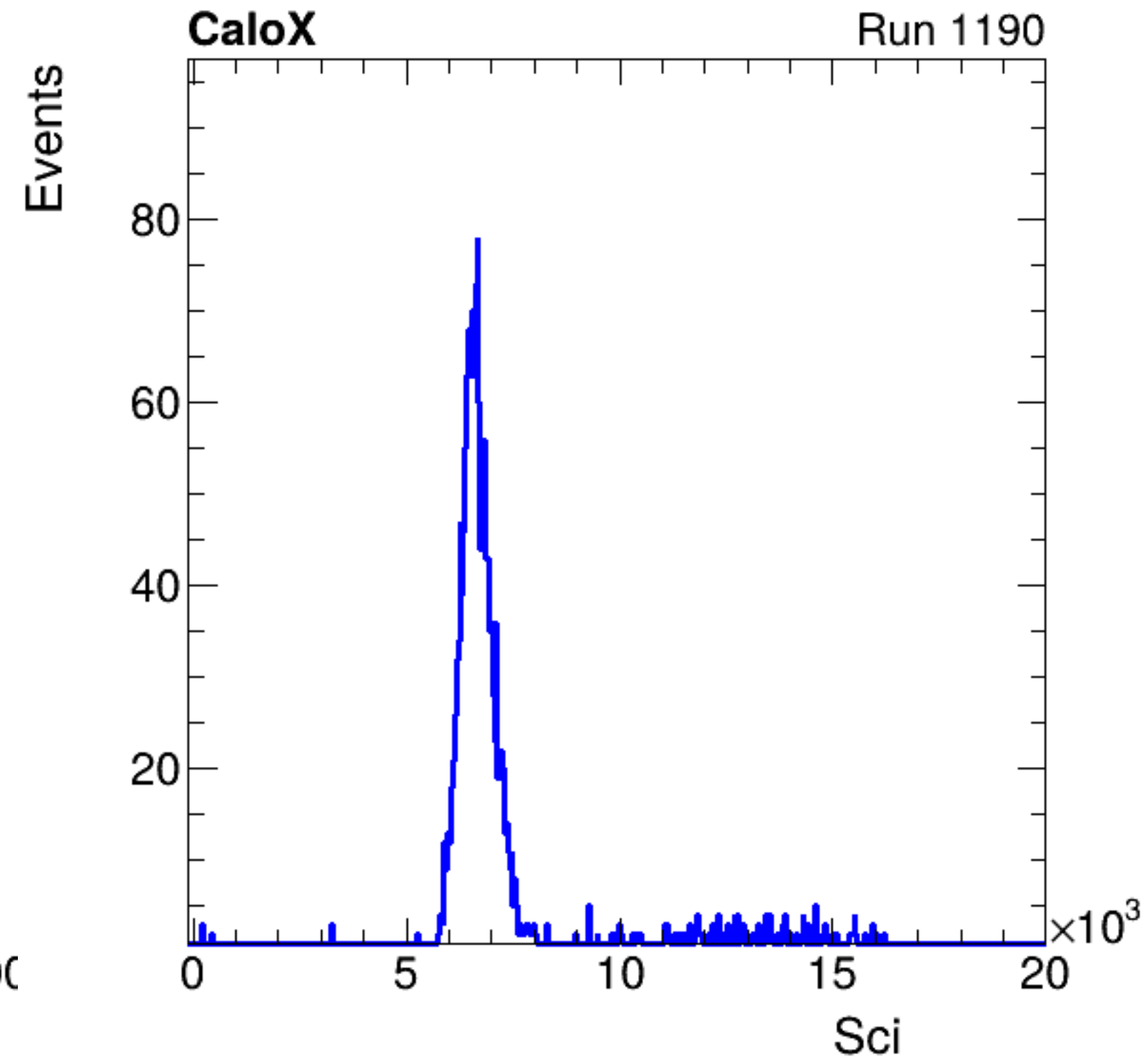
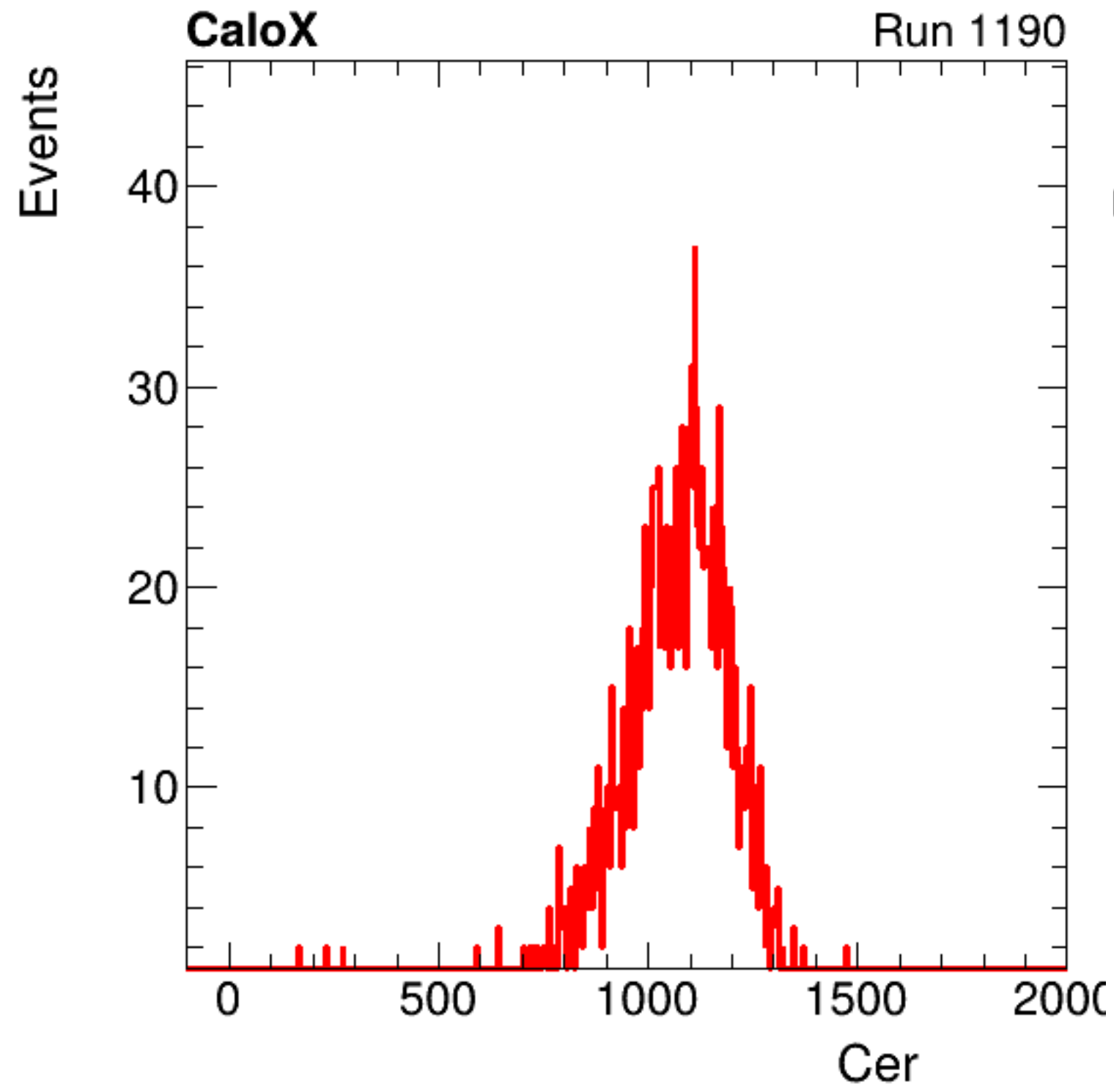
Channel Output



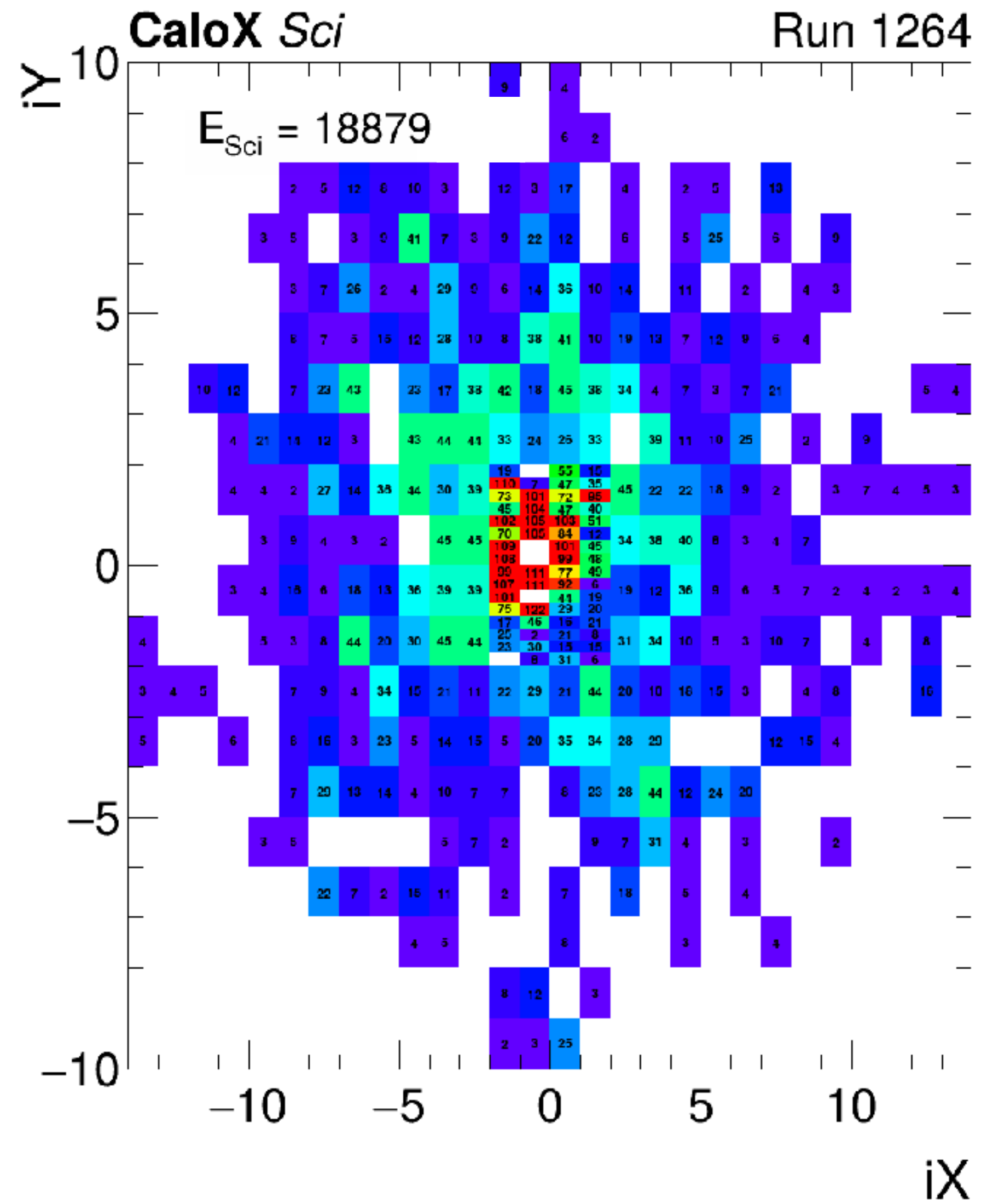
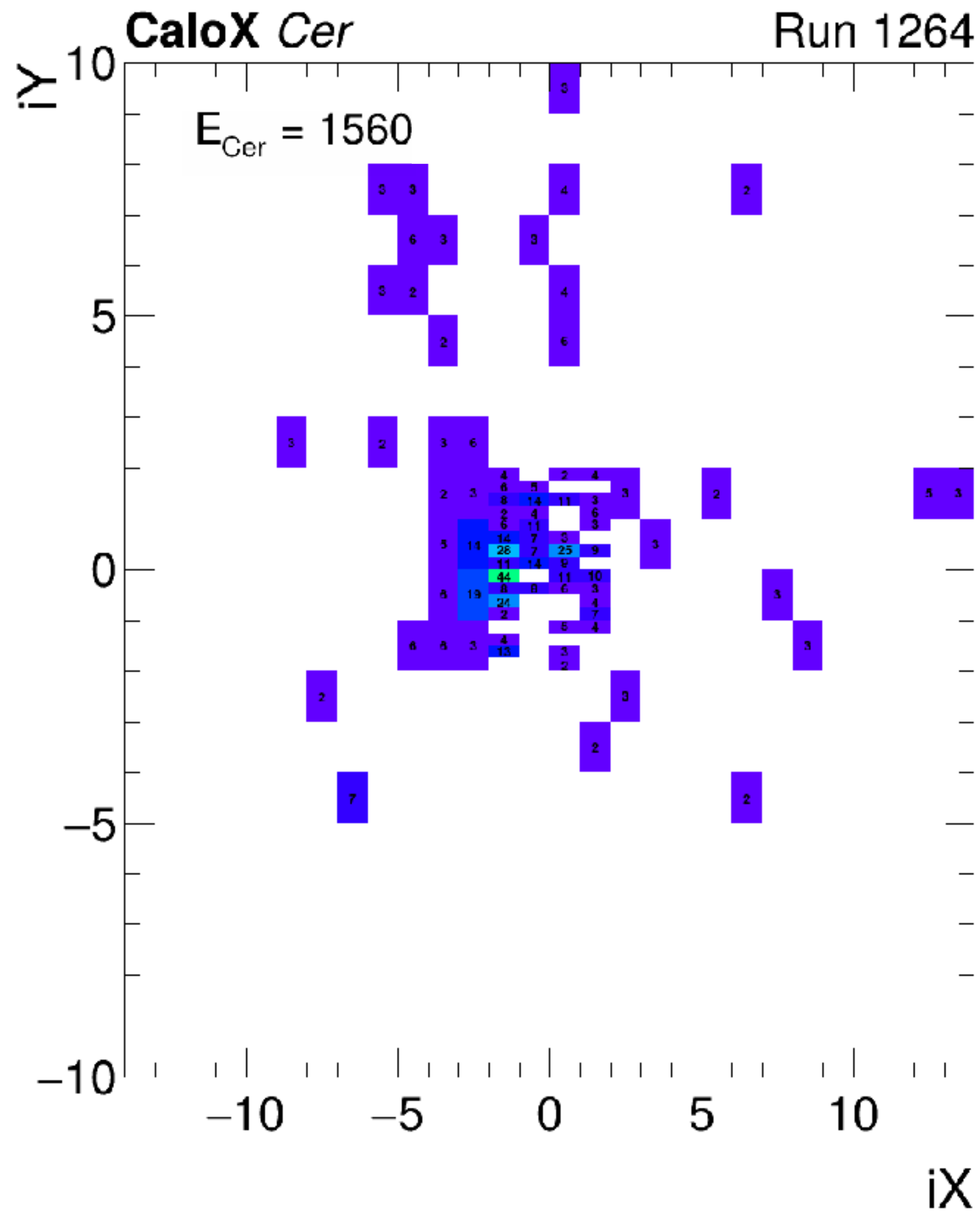
Event Display: EM



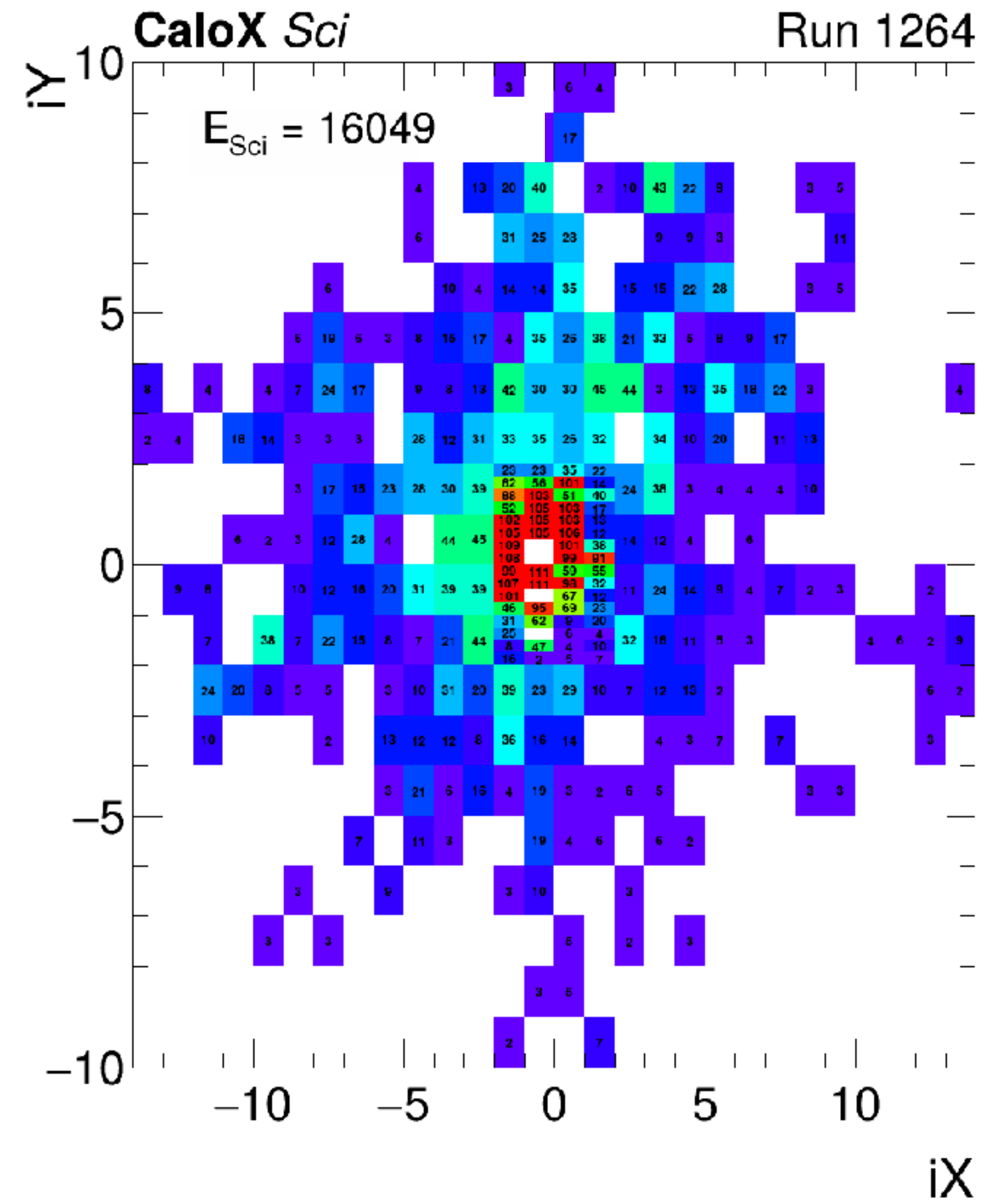
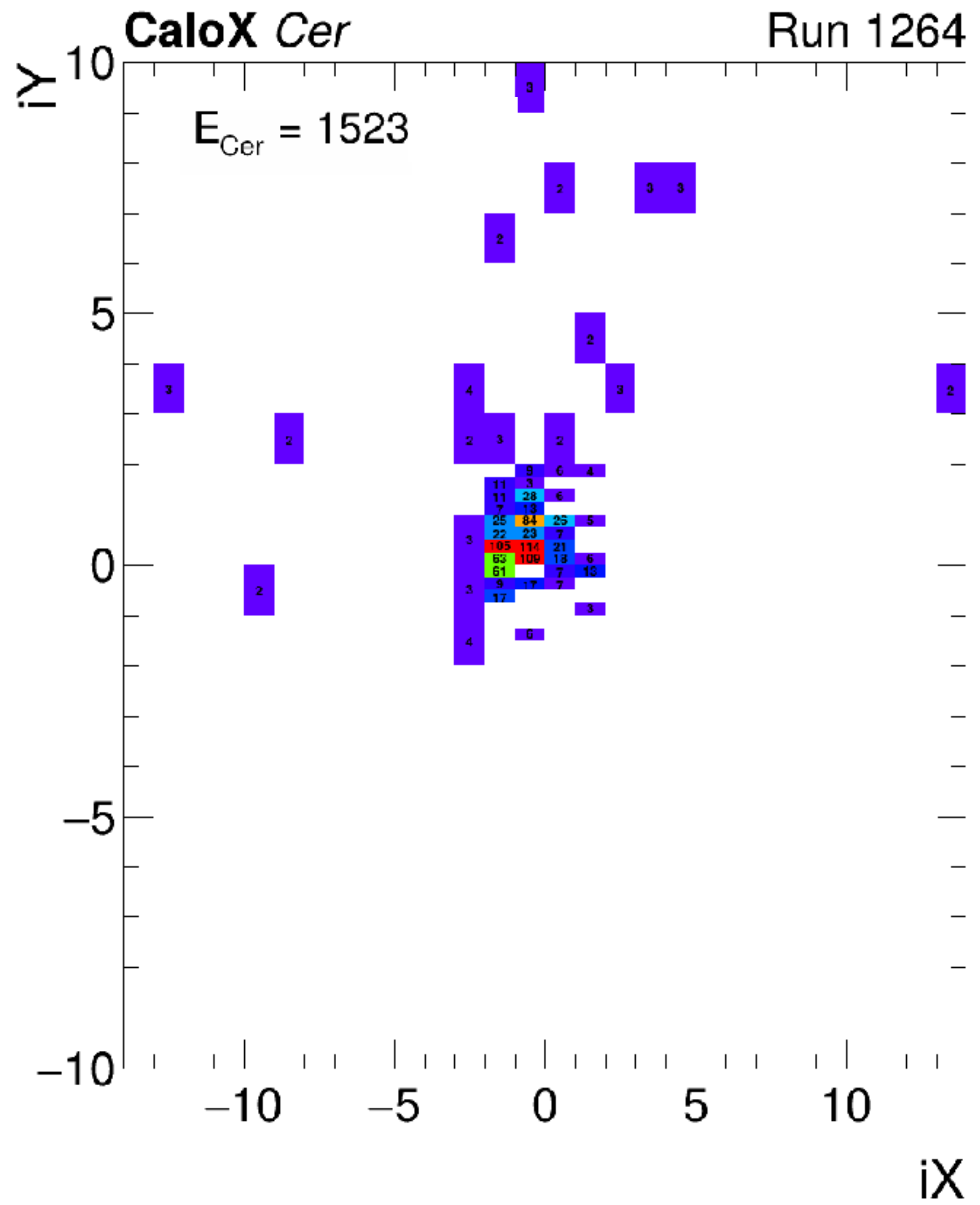
EM Energy Sum



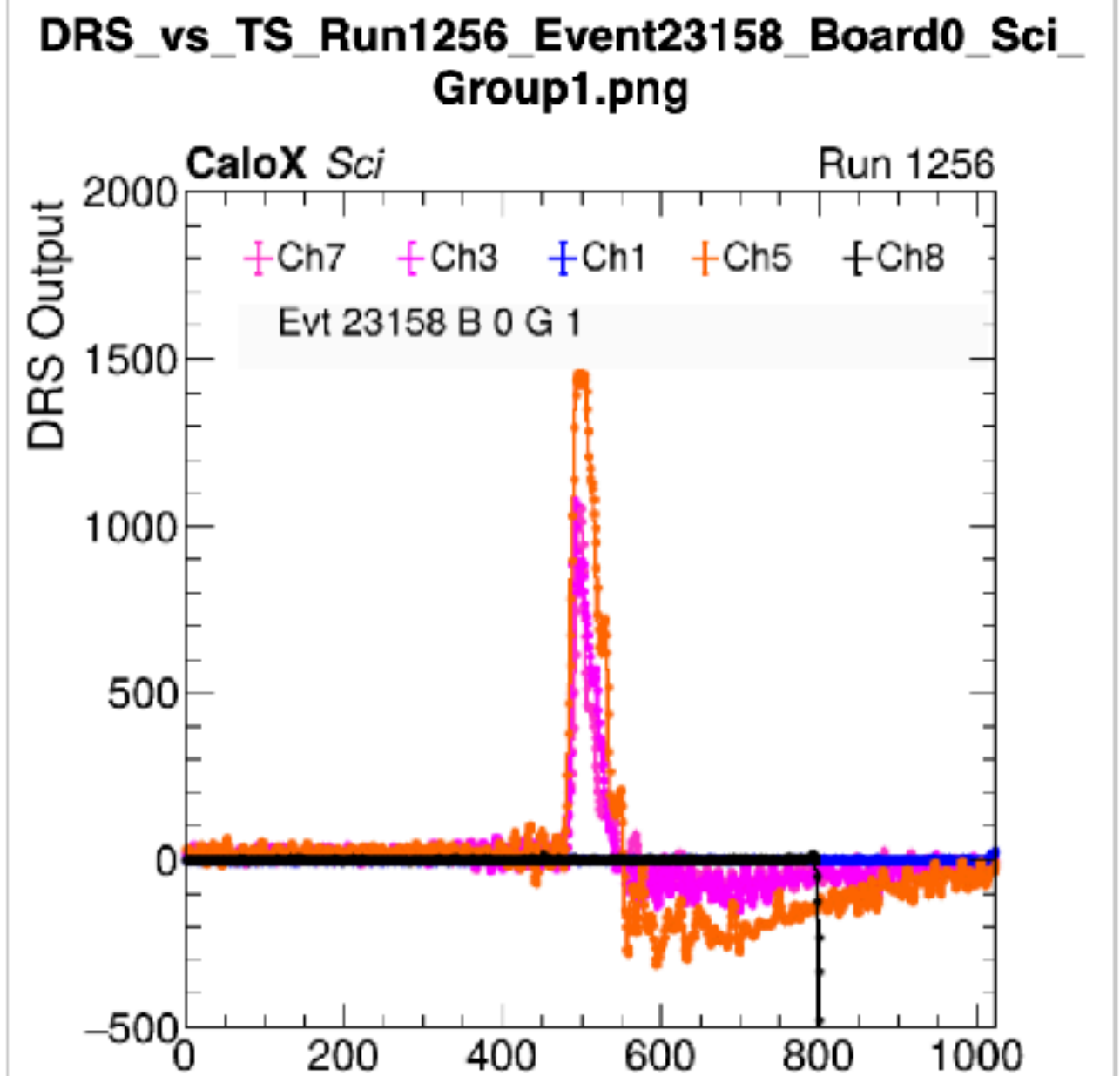
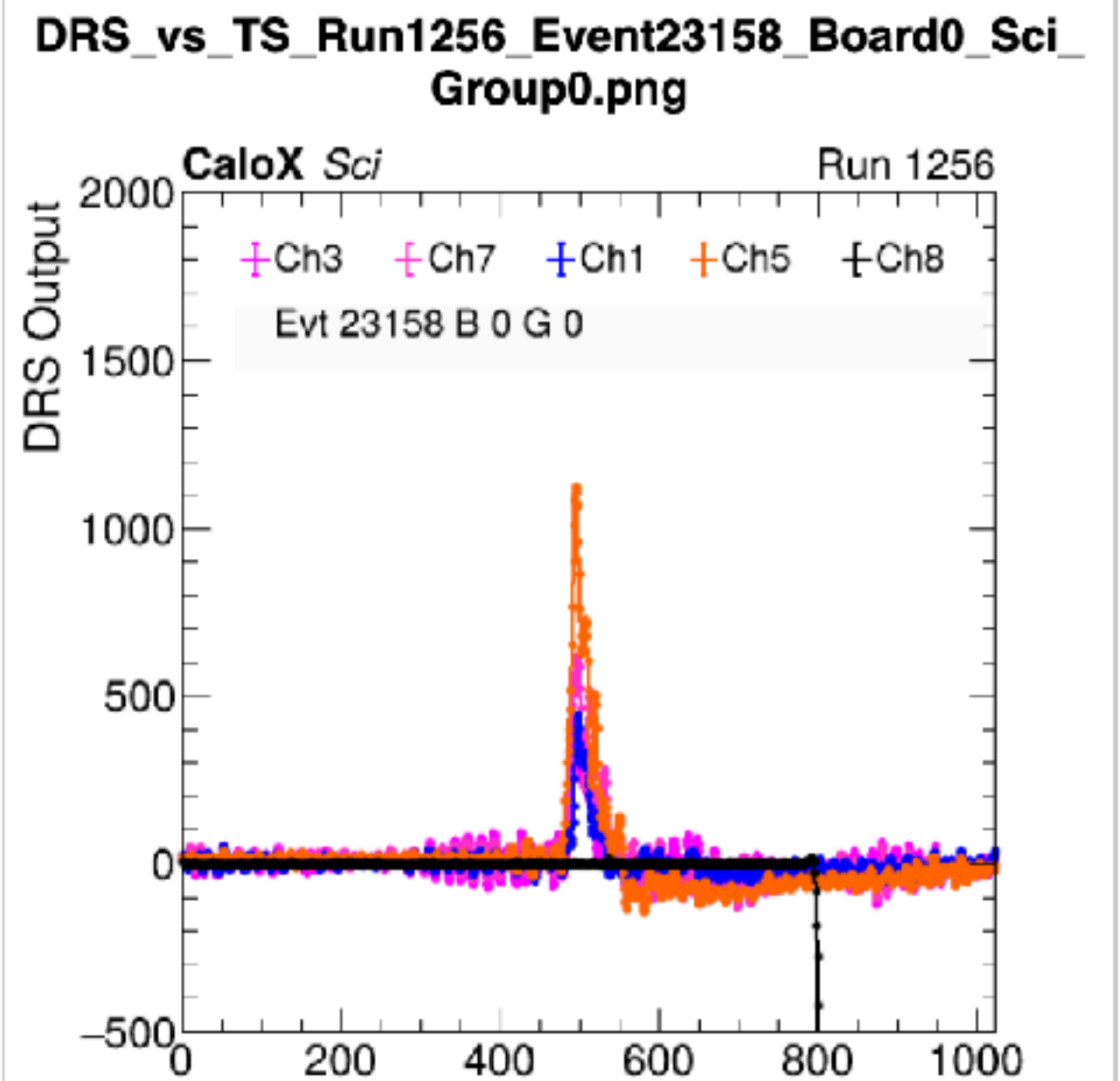
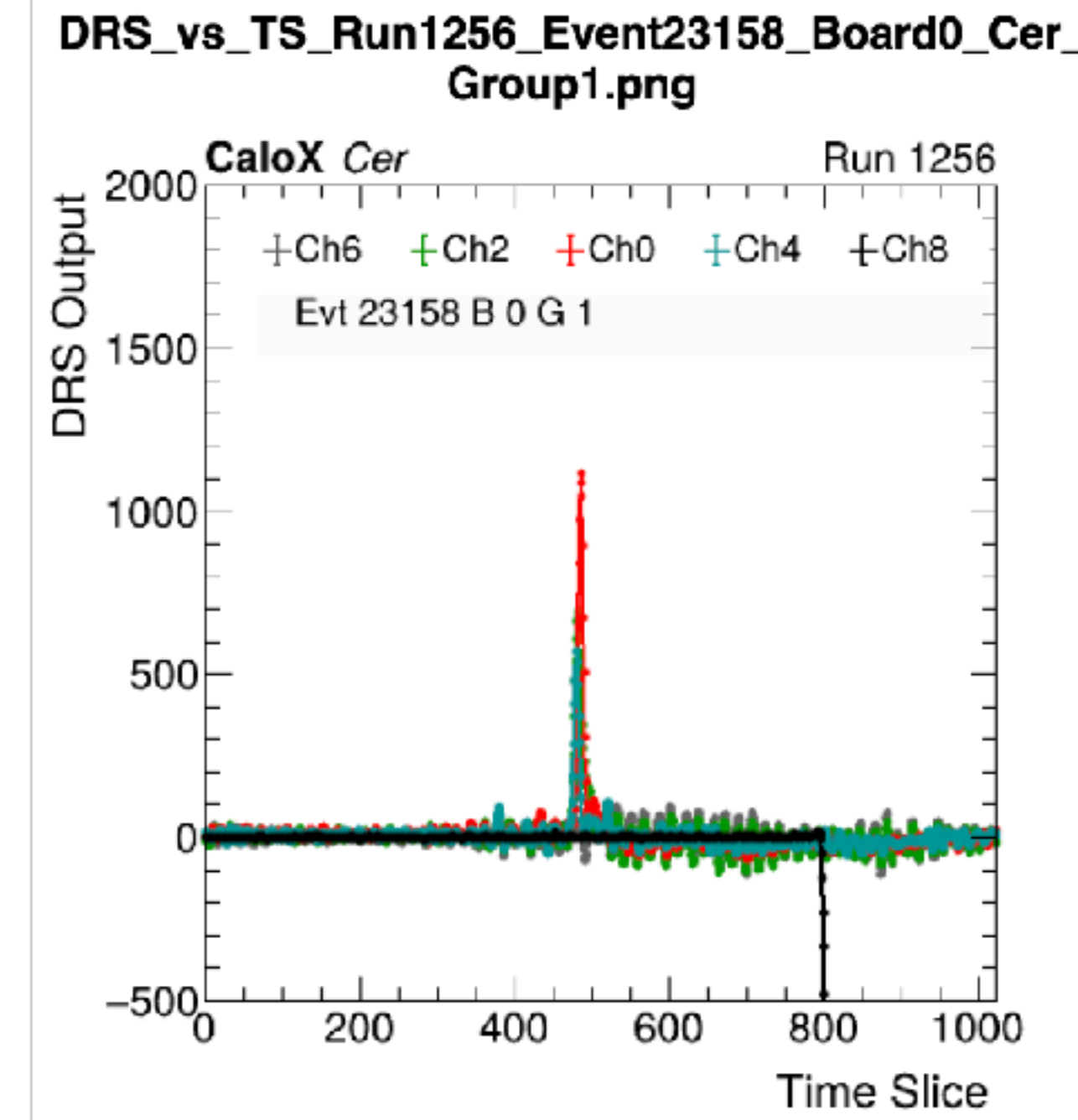
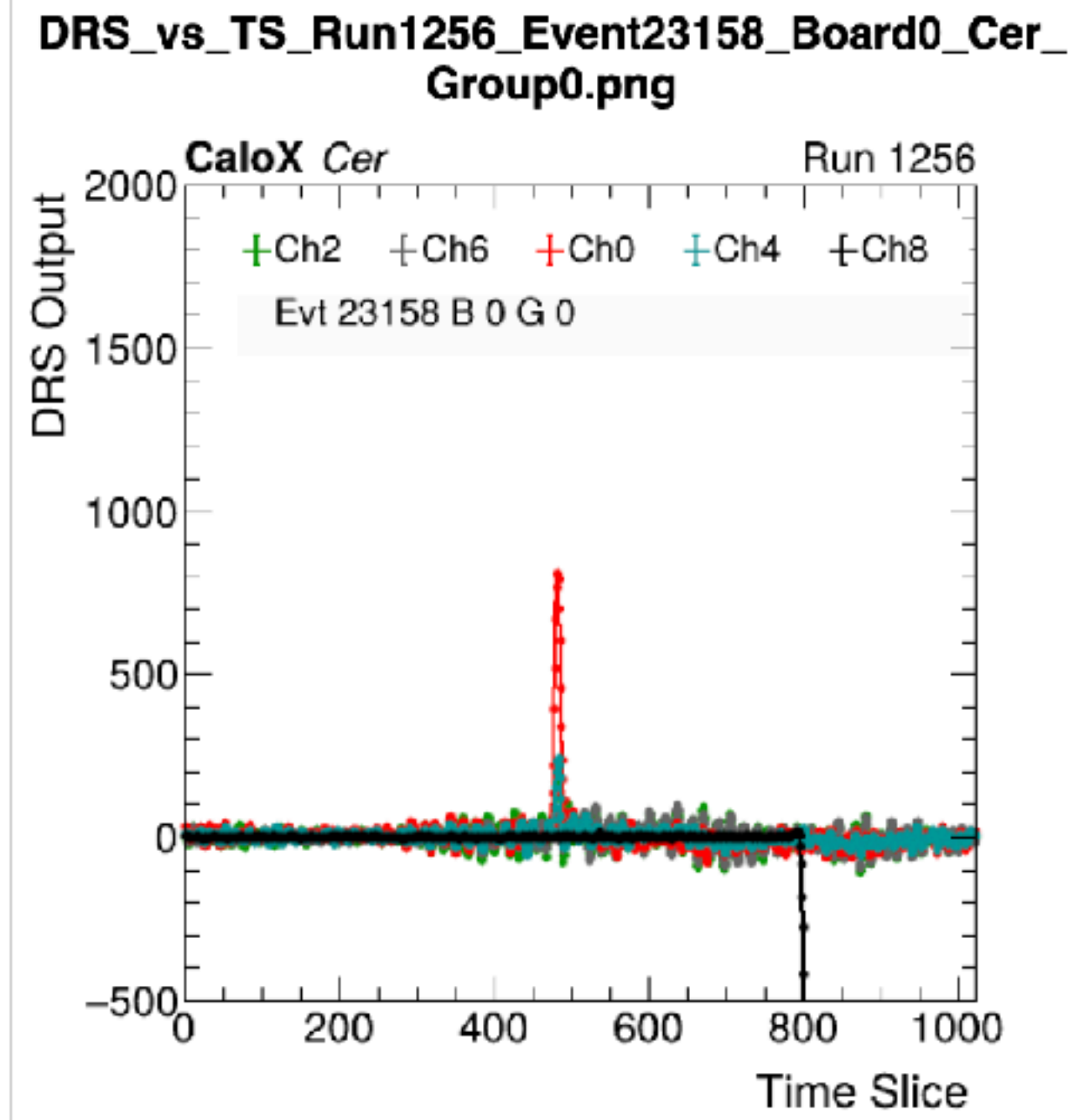
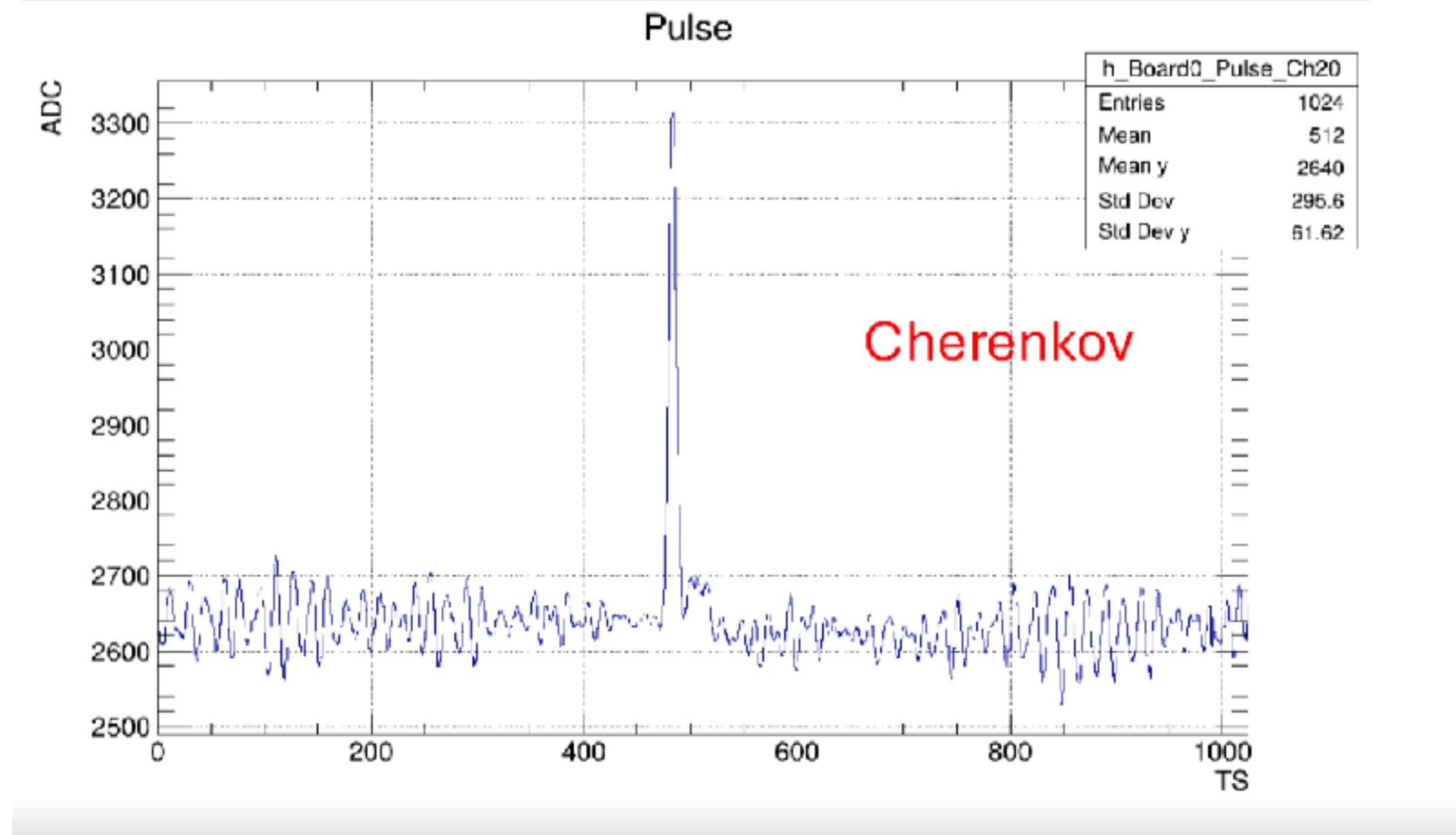
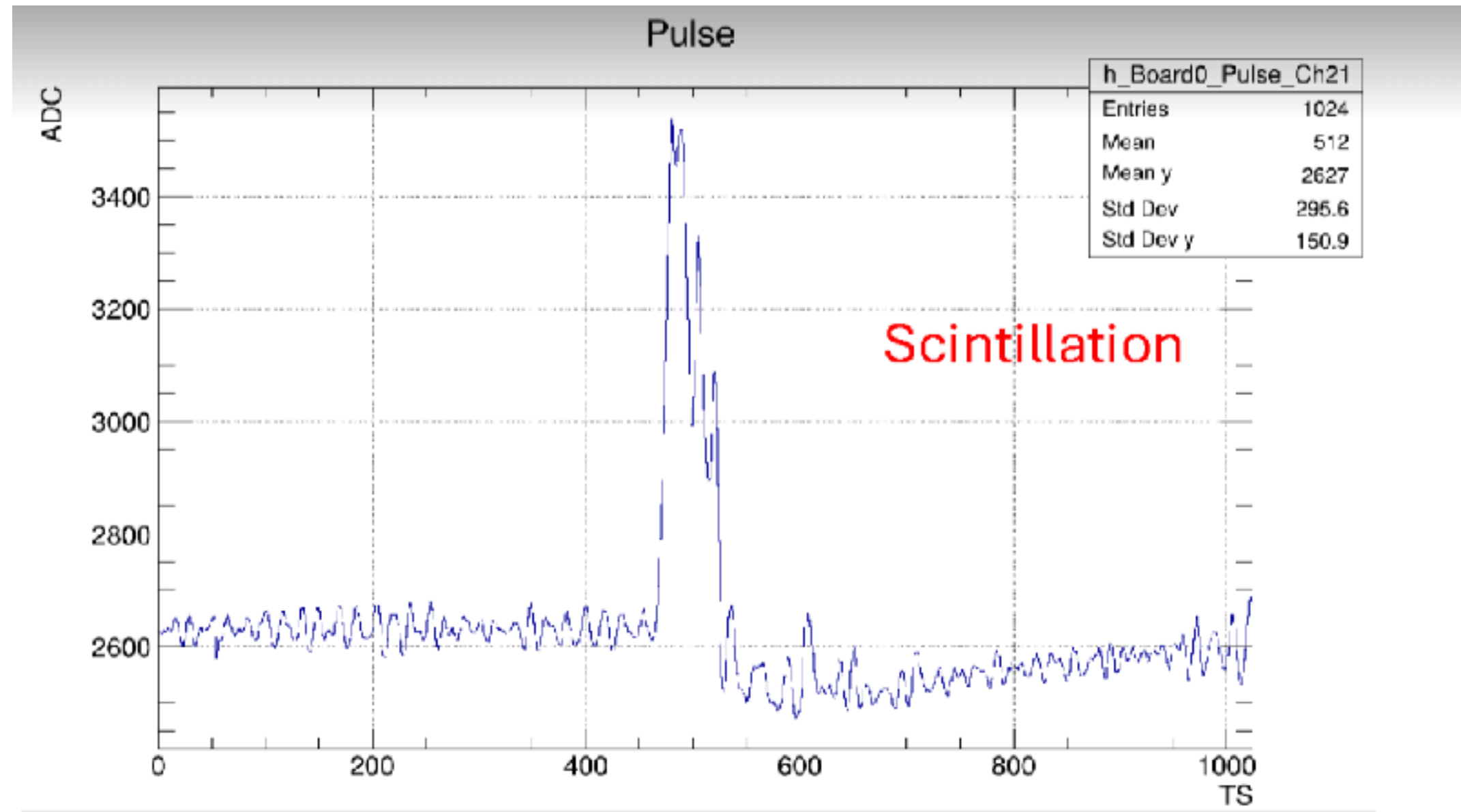
Event Display: Pion



Event Display: Pion

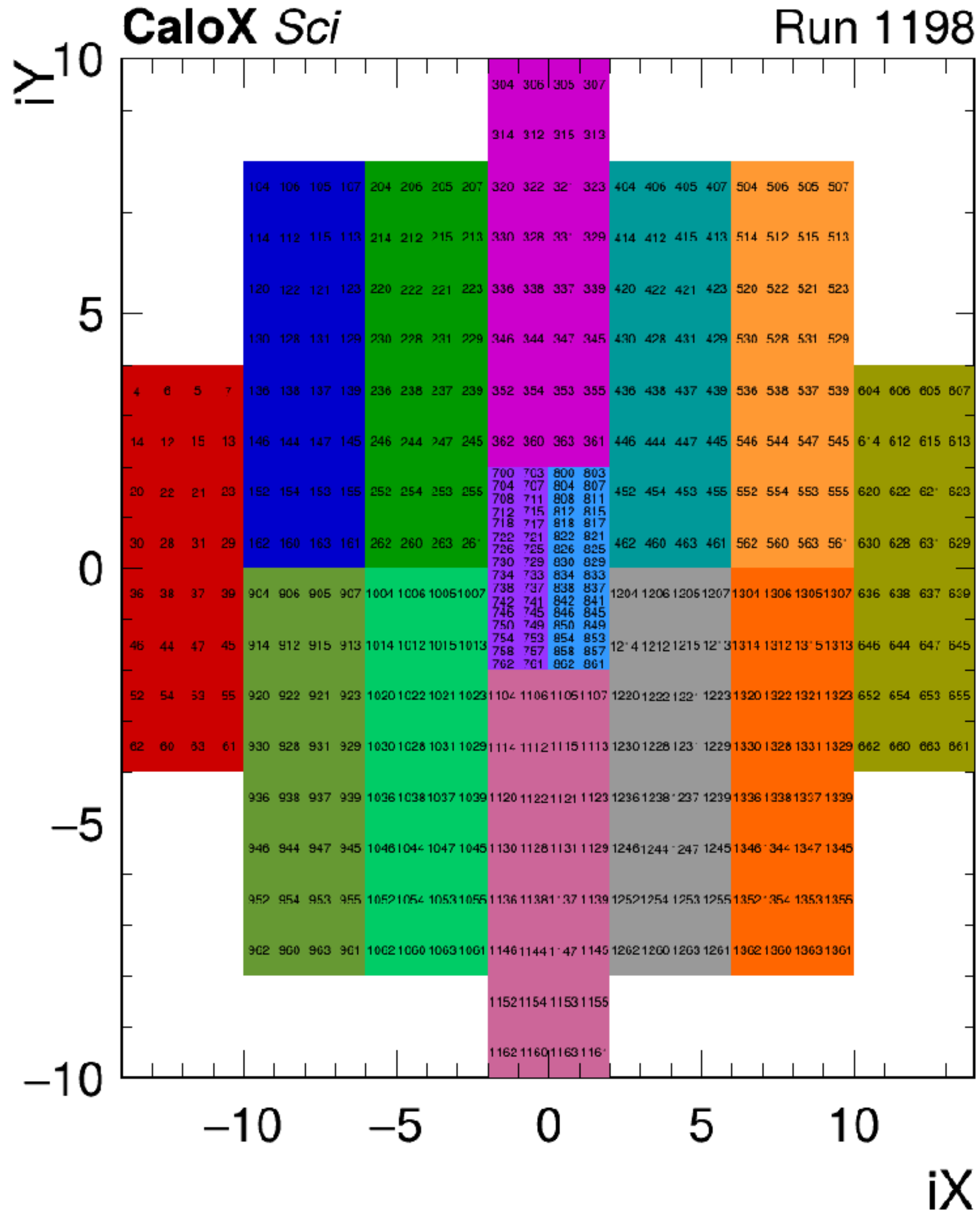


Pulse



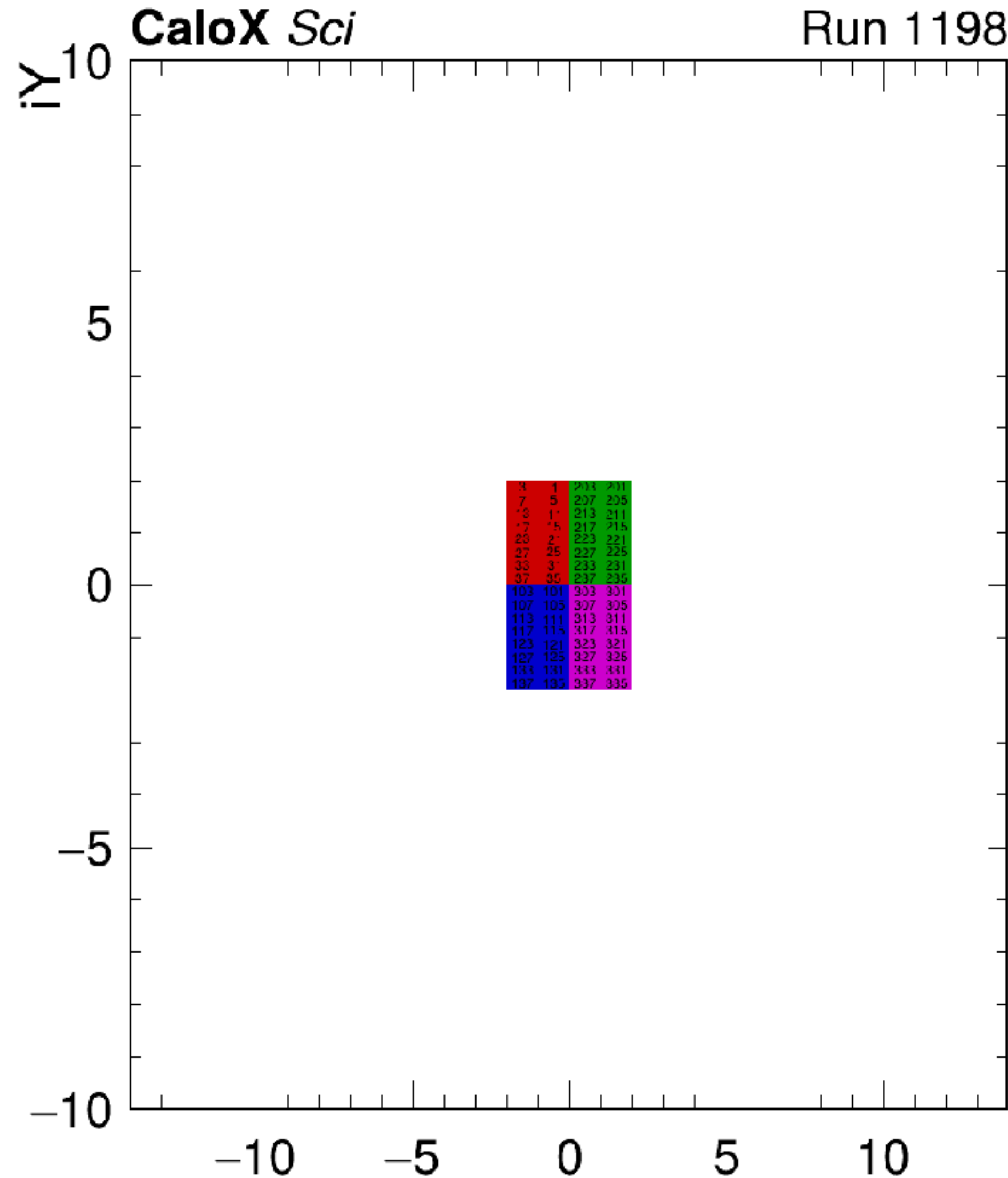
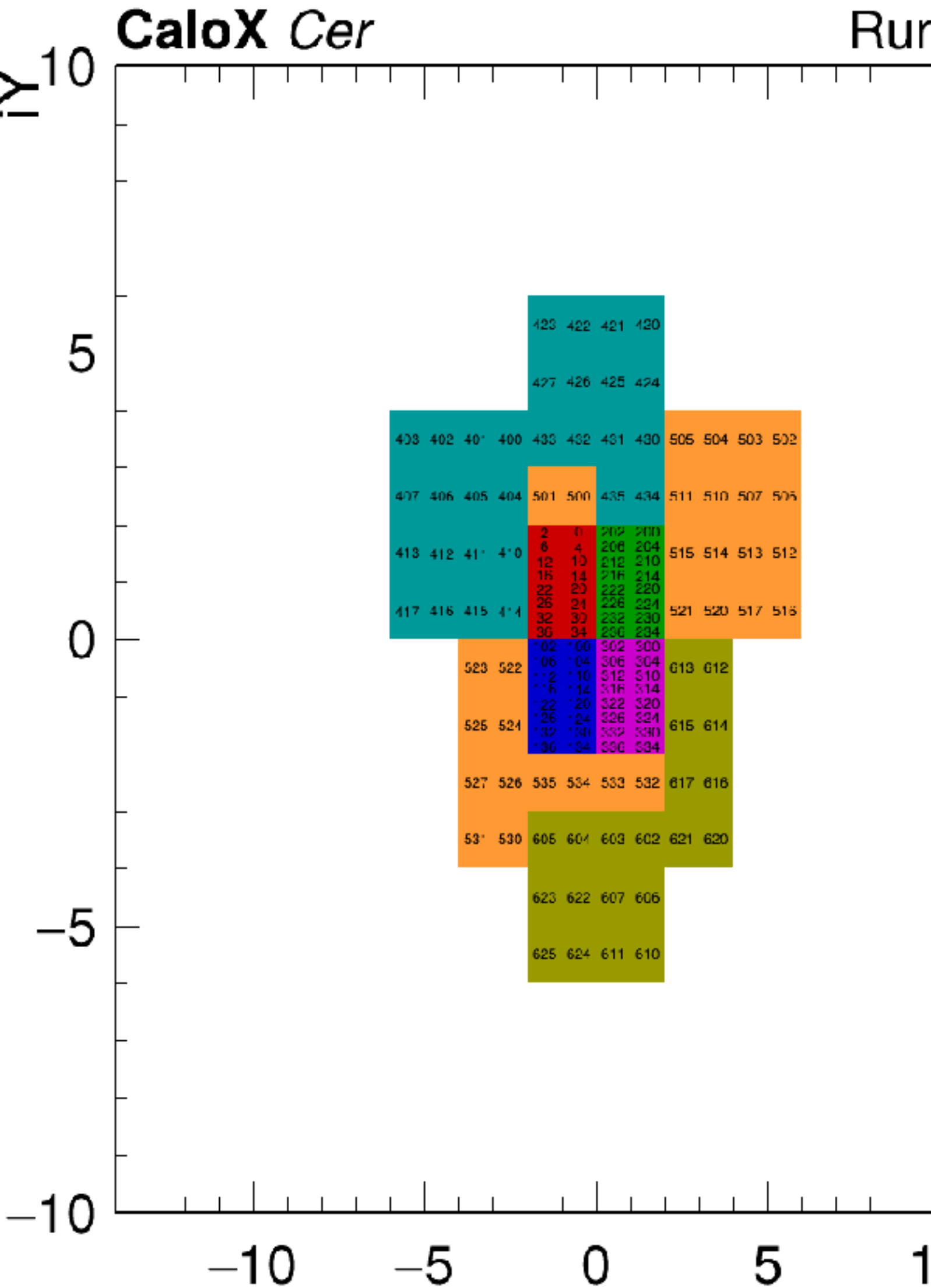
Back Up

FERS Channels



- 896 channels in FERS in total, split evenly between C and S channels
- ✿ 128 channels with 3mm SiPM, each channel corresponds to a tower of 1.2cm x 0.4cm. “High Granularity”
- ✿ 768 channels with 6mm SiPM, each channel corresponds to a tower of 1.2cm x 1.6cm

DRS Channels (Timing)



- 224 channels in DRS in total, split evenly between C and S channels
- ✿ 64 channels for S, reading out “high granularity” part of S
- ✿ 160 channels for C, reading out “central” part of detector
- 5GS sampling frequency, so in each event, read out every 200ps per channel