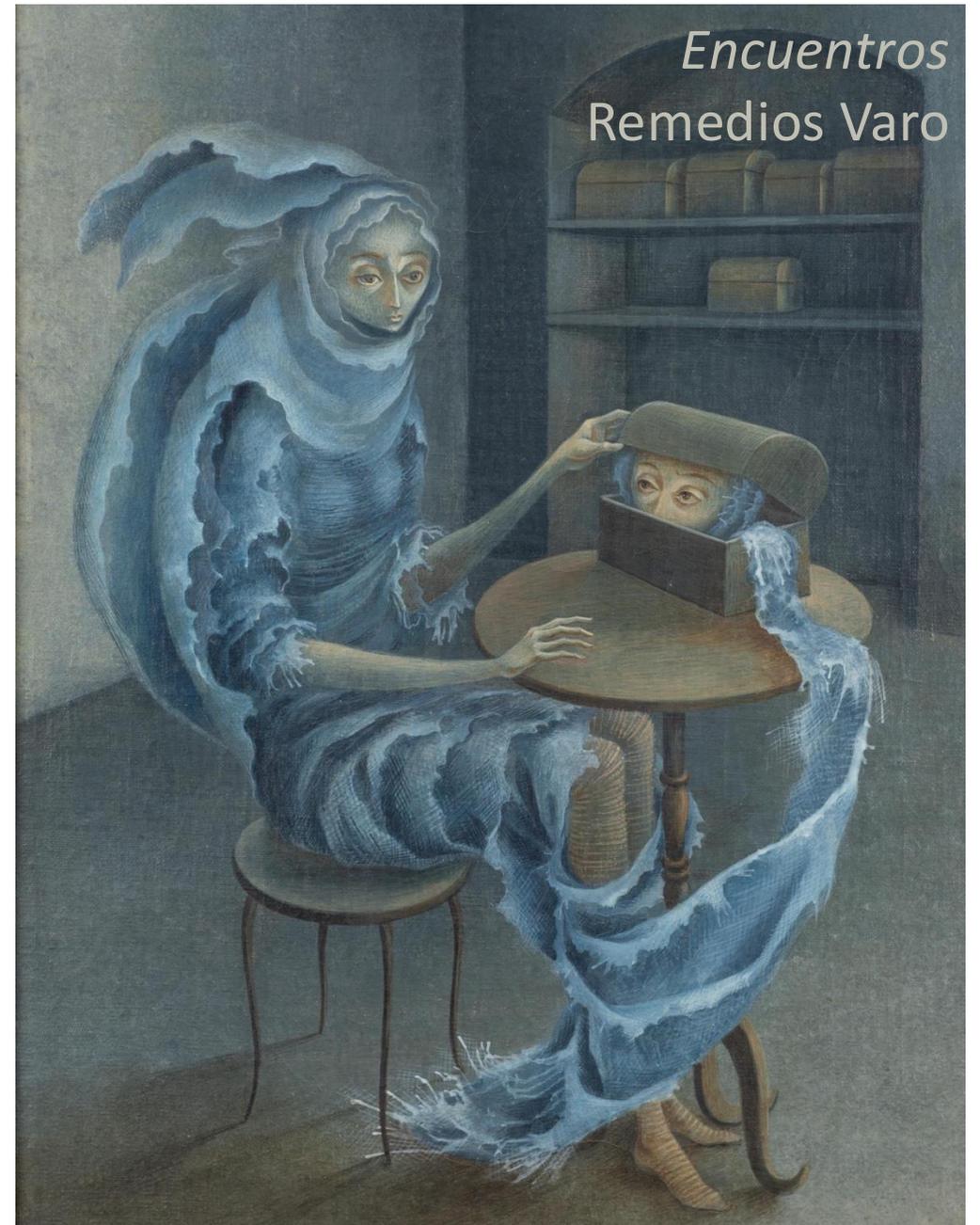


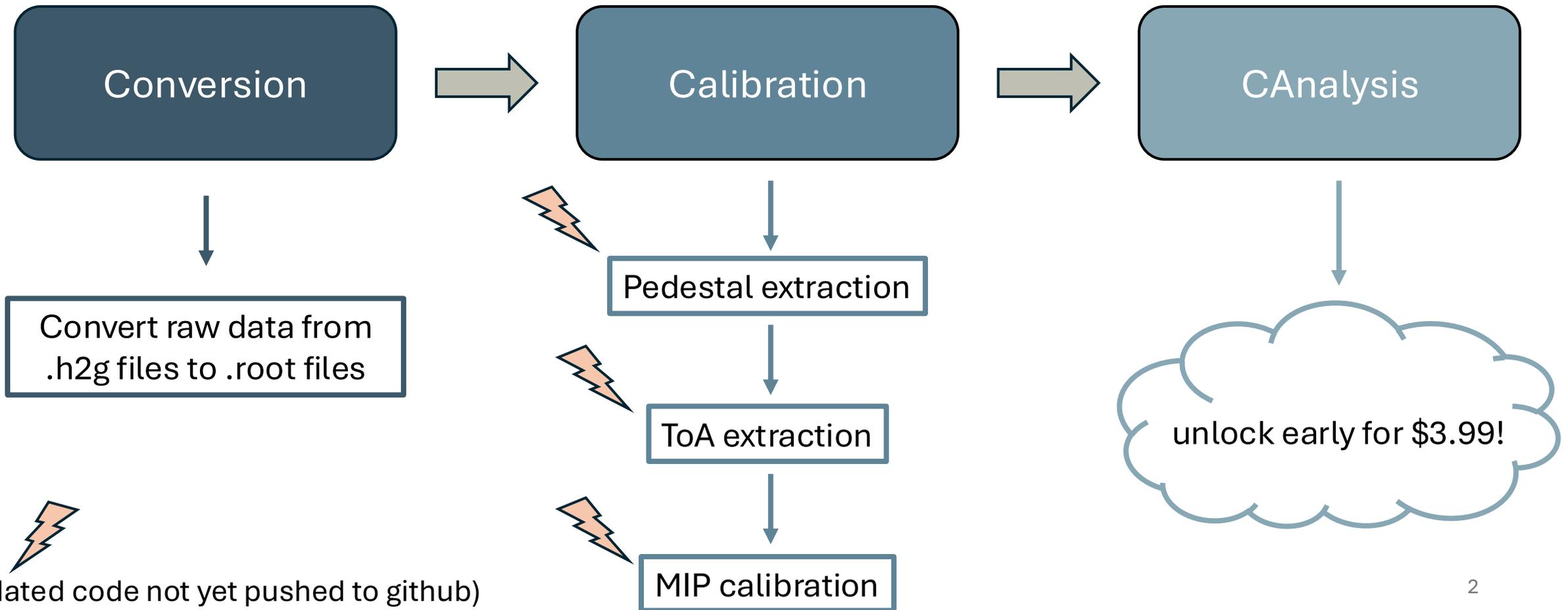
# TB2025 Analysis: update on muon calibration

March 12, 2026

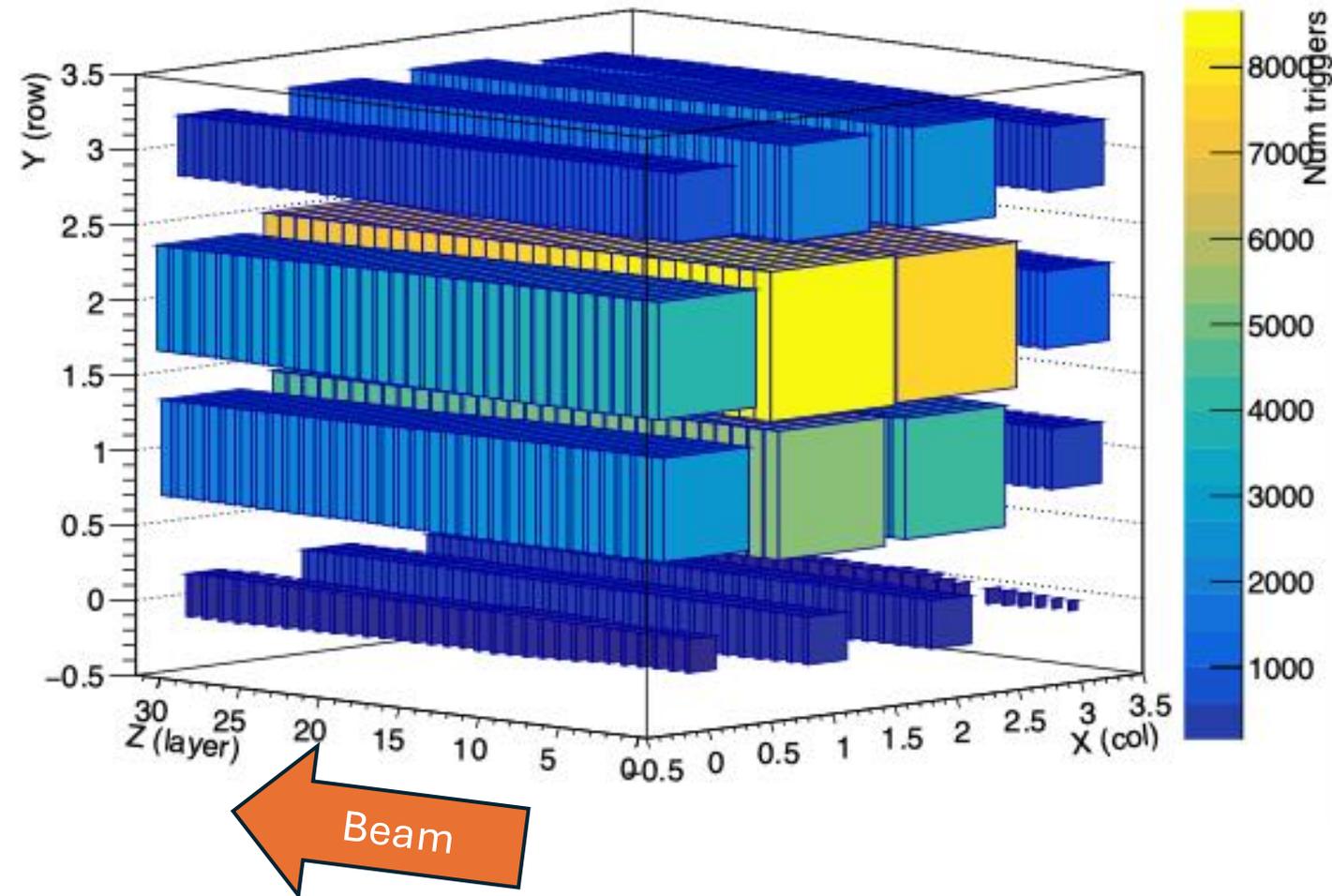
Emily Pottebaum



# LFHCaI TB data flow: The Three Cs



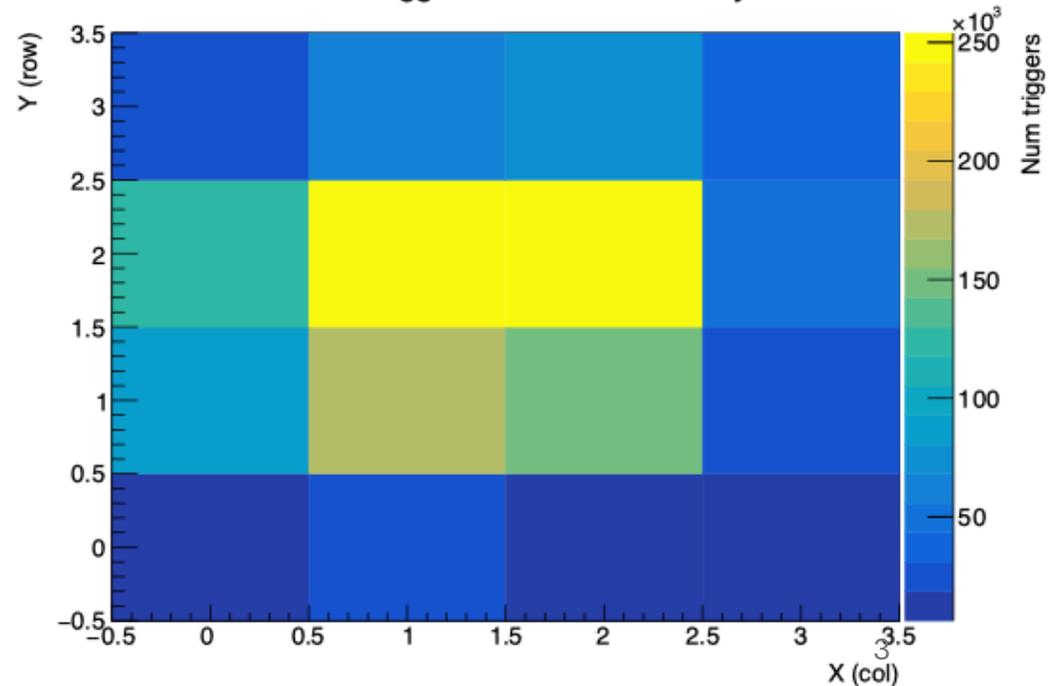
# MIP Triggers



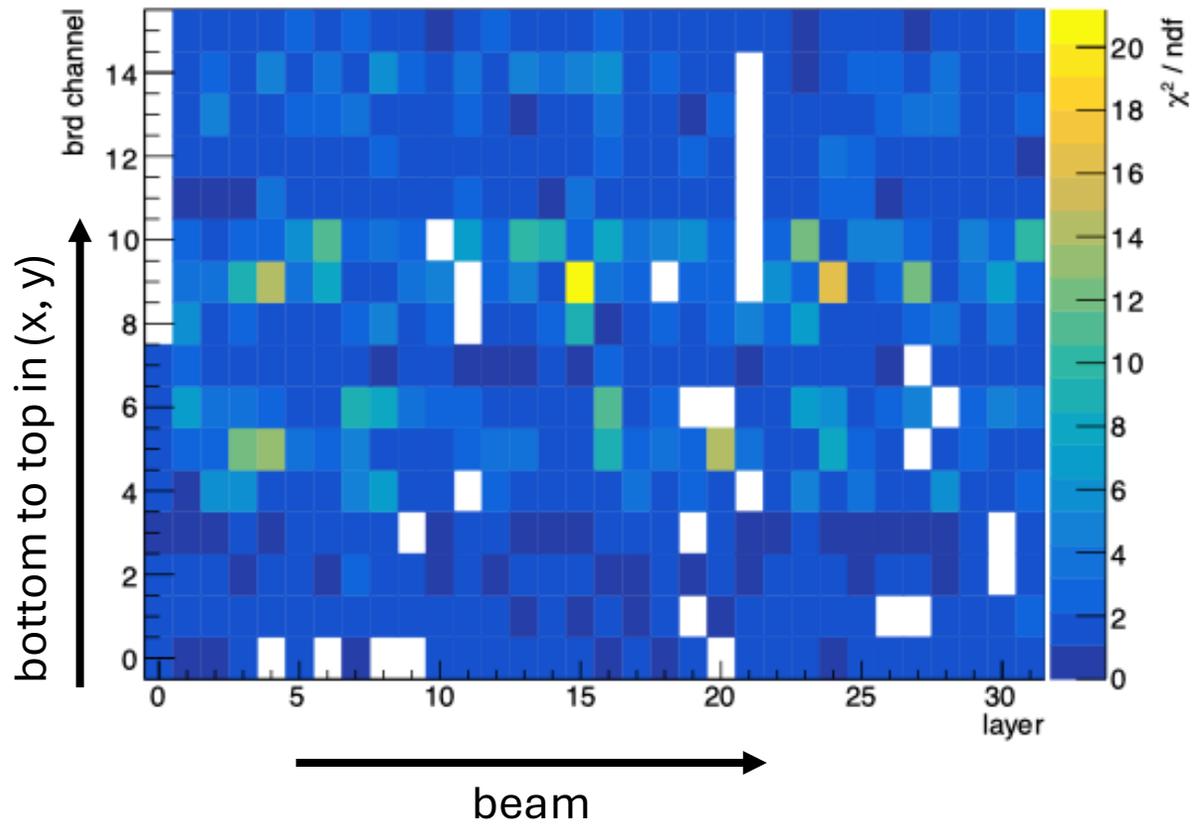
- Run: 30
- Beam energy: 5 GeV
- Bias voltage: 44 V
- Looking at muon calibration (shown: "imp")

(beam into page)

MIP Triggers summed over layers



HG MiP fit  $\chi^2/\text{NDF}$



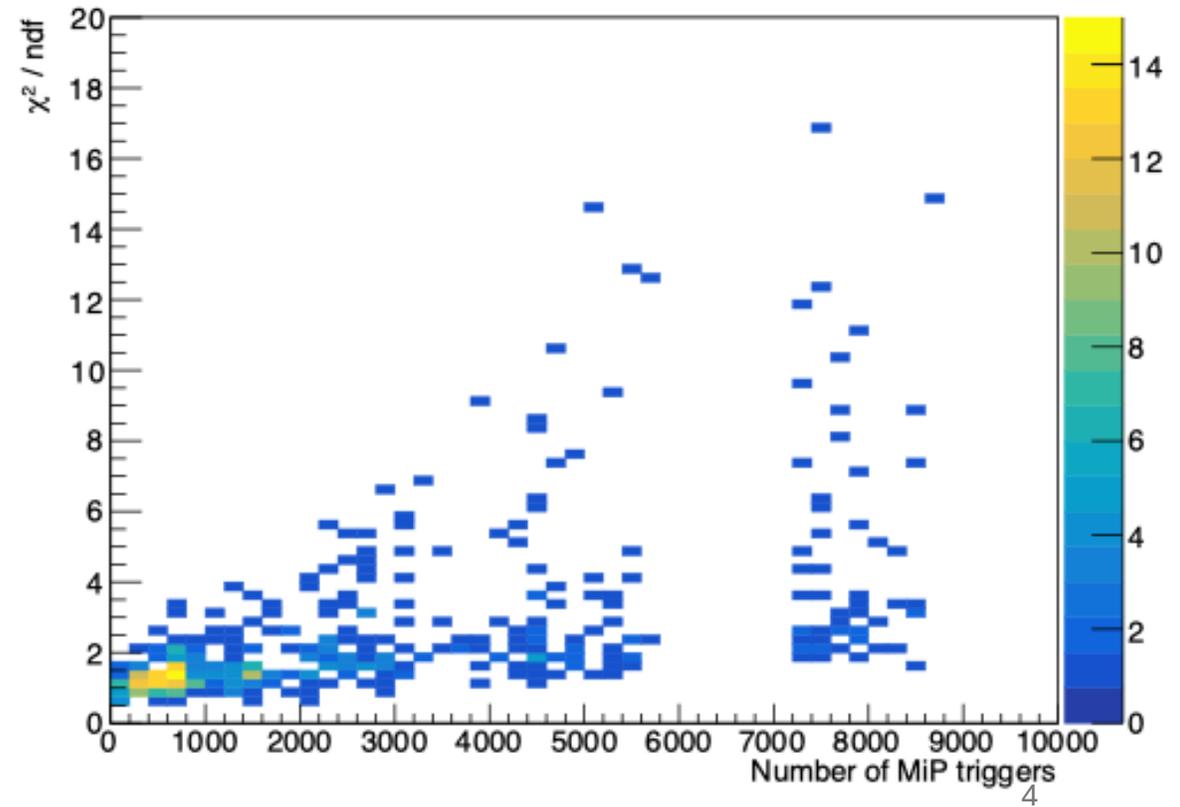
How many muon events are needed?

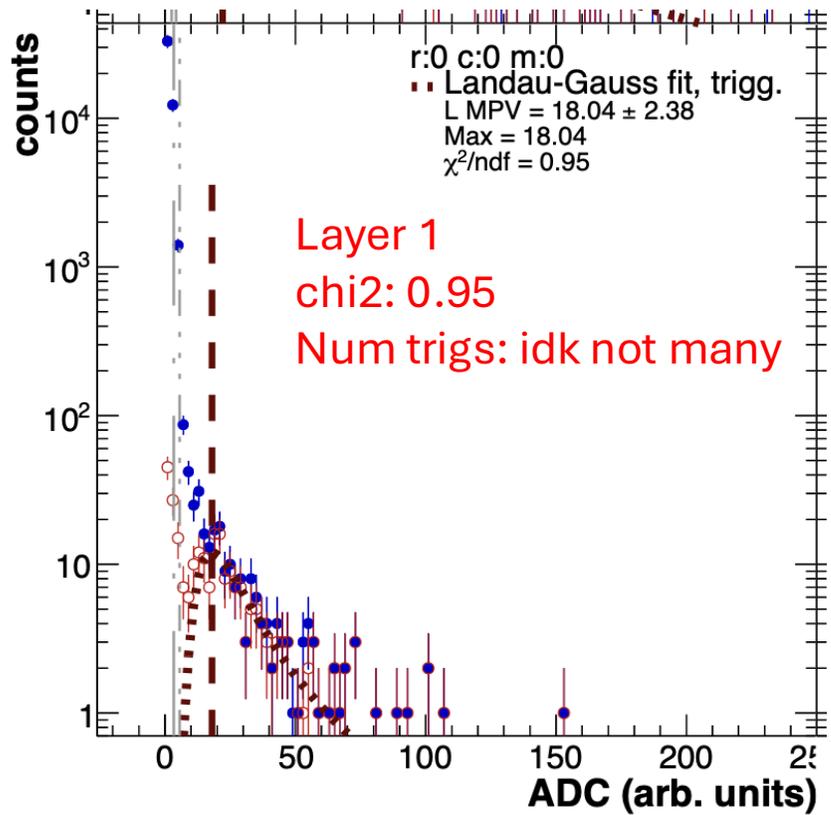
online triggers: 201,920

received triggers: 103,552

reconstructed triggers: 47,040

HG MiP fit by stats





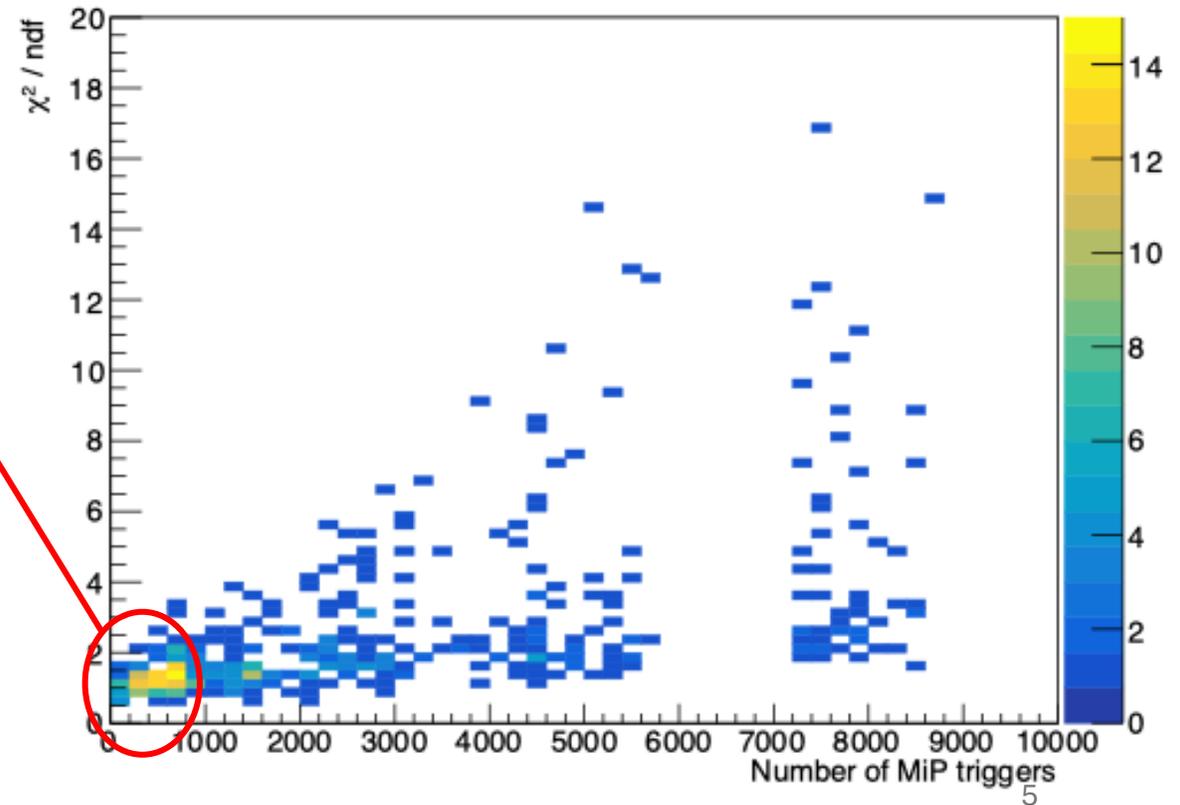
How many muon events are needed?

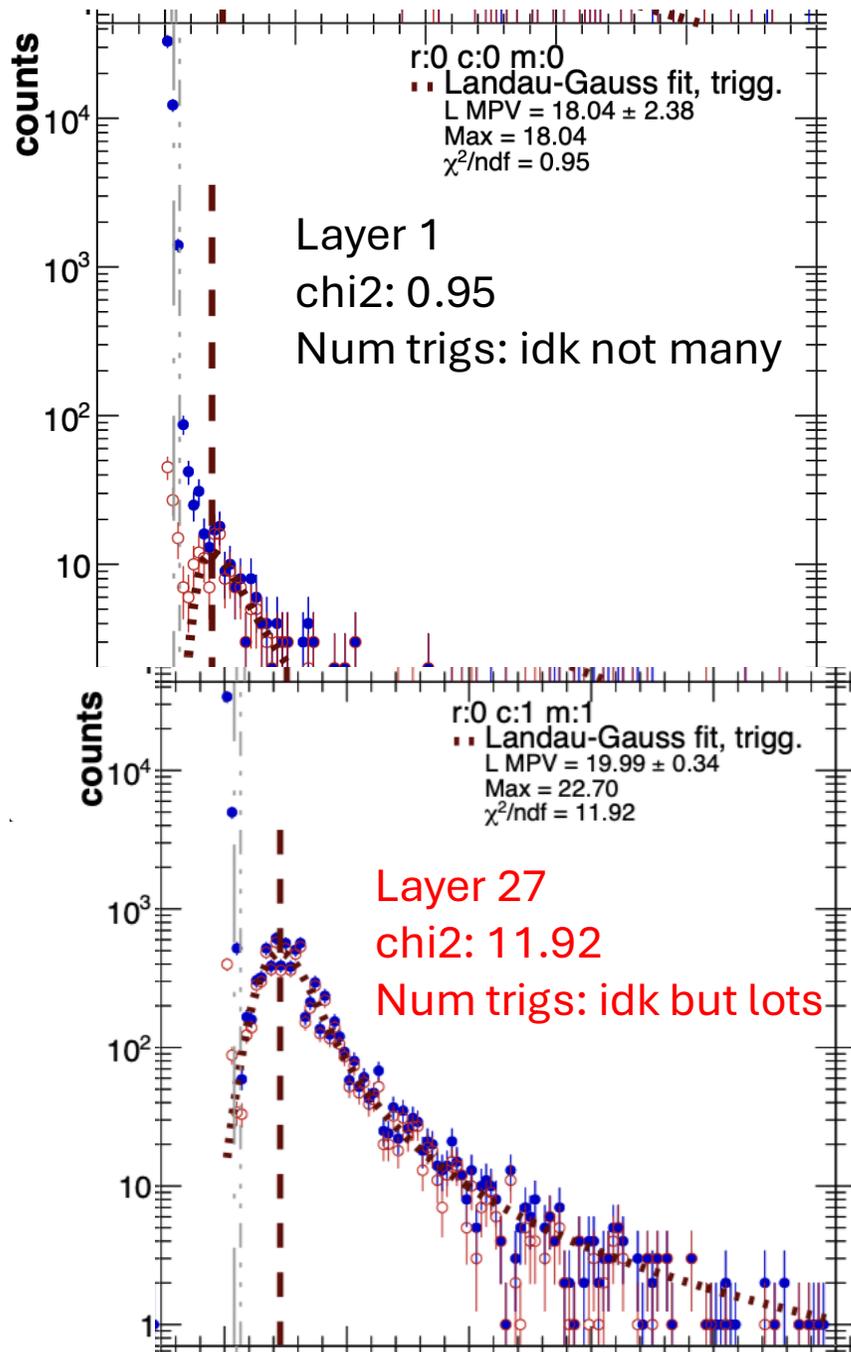
online triggers: 201,920

received triggers: 103,552

reconstructed triggers: 47,040

HG MiP fit by stats





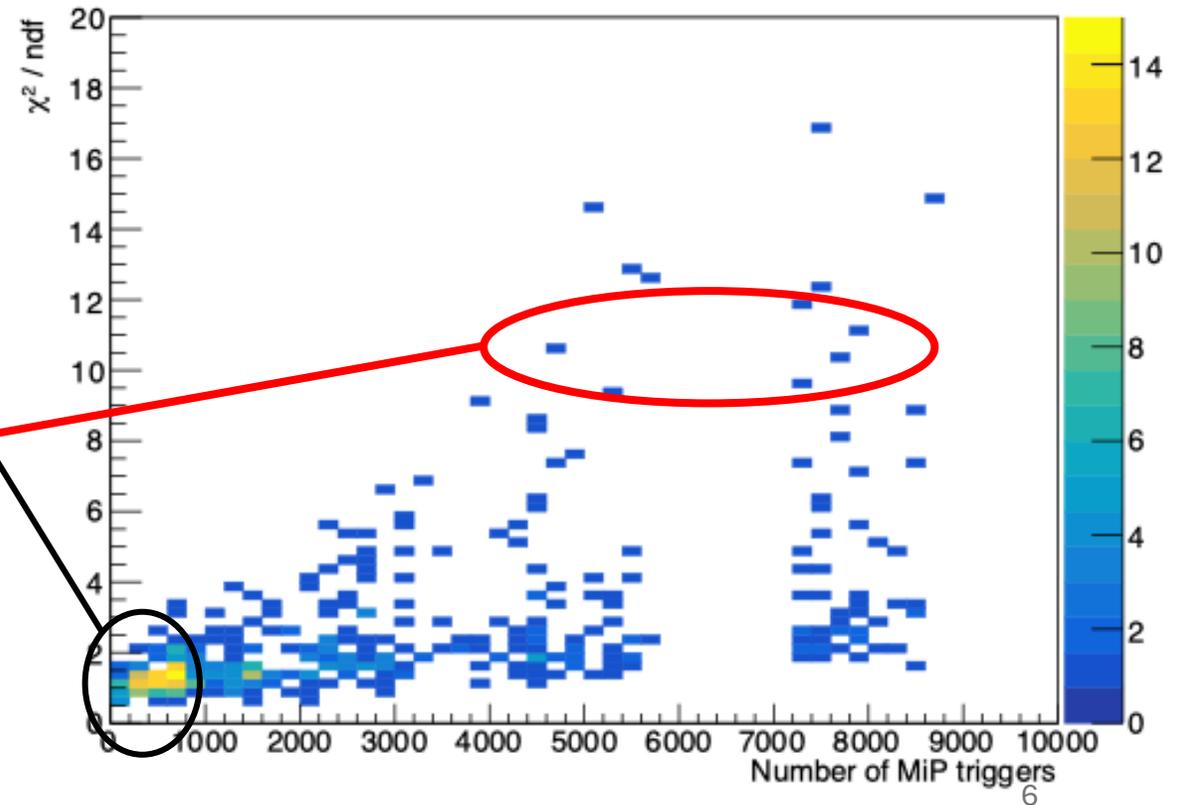
How many muon events are needed?

online triggers: 201,920

received triggers: 103,552

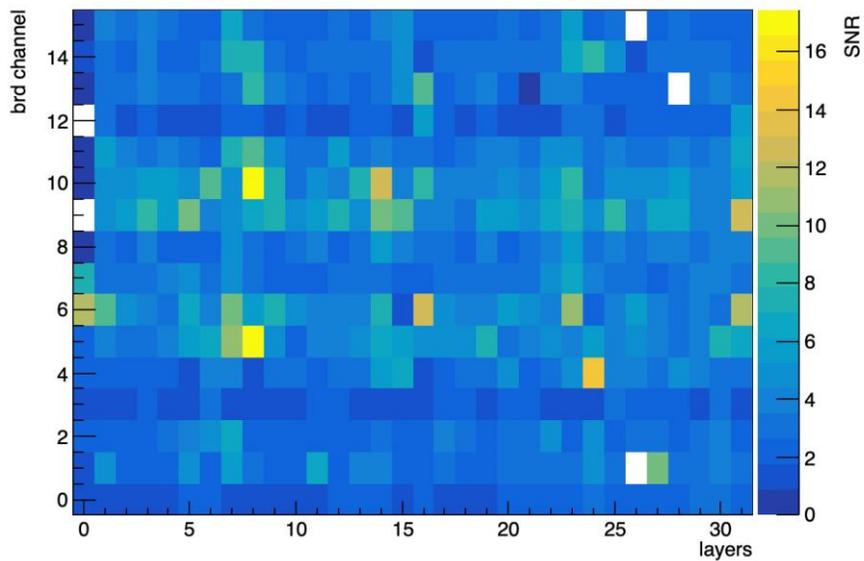
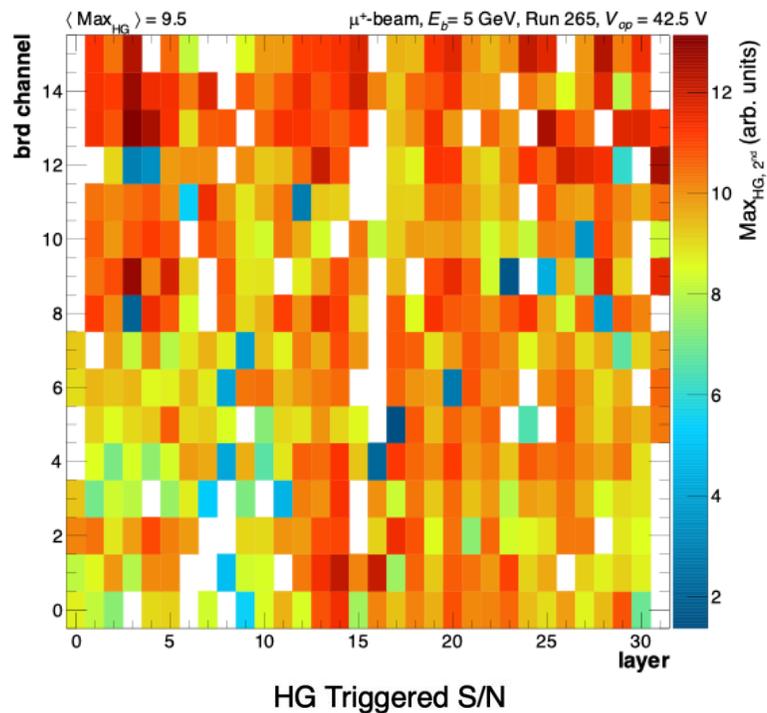
reconstructed triggers: 47,040

HG MiP fit by stats

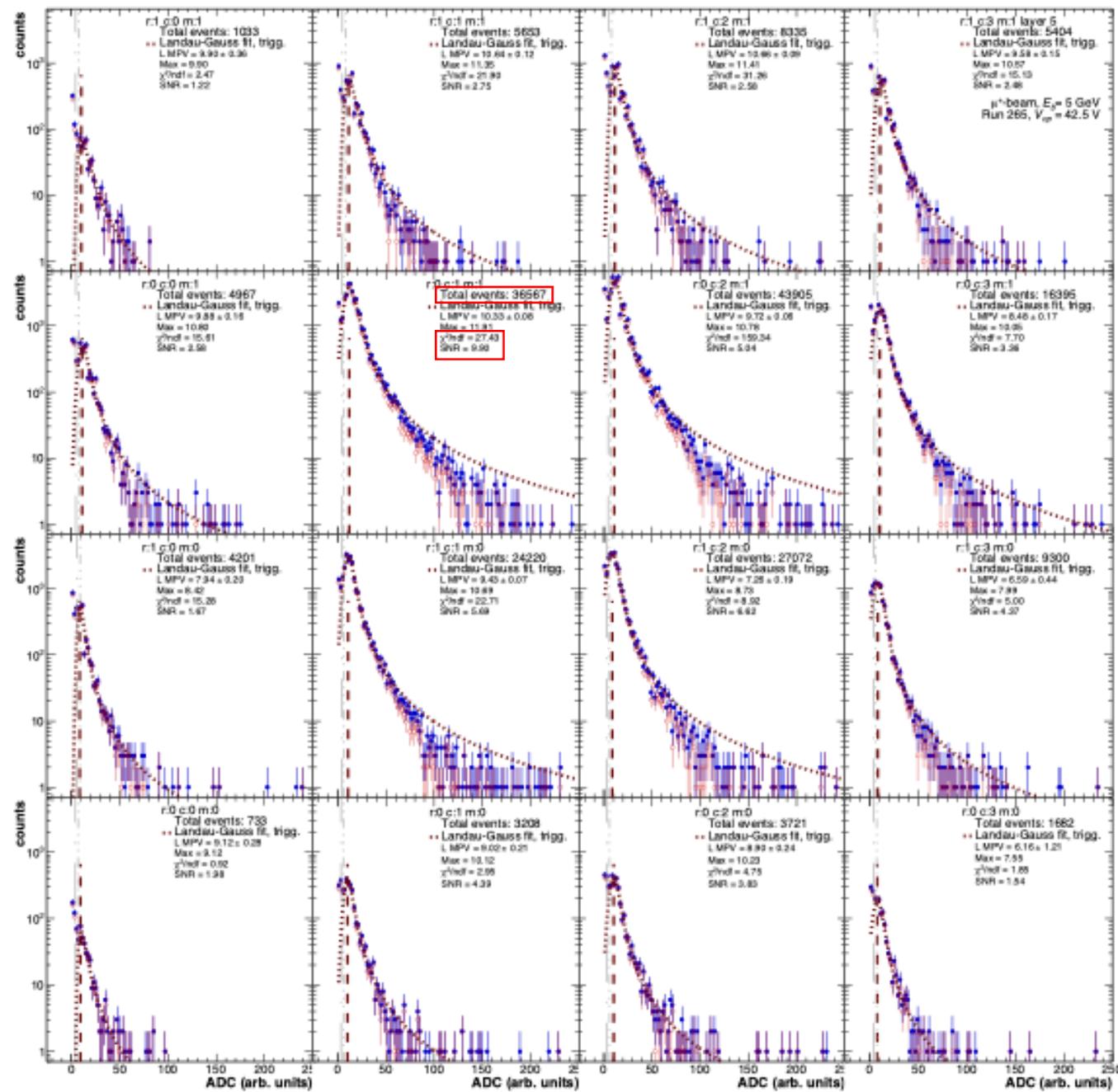


March 25, 2026 update

# 265: 42.5V

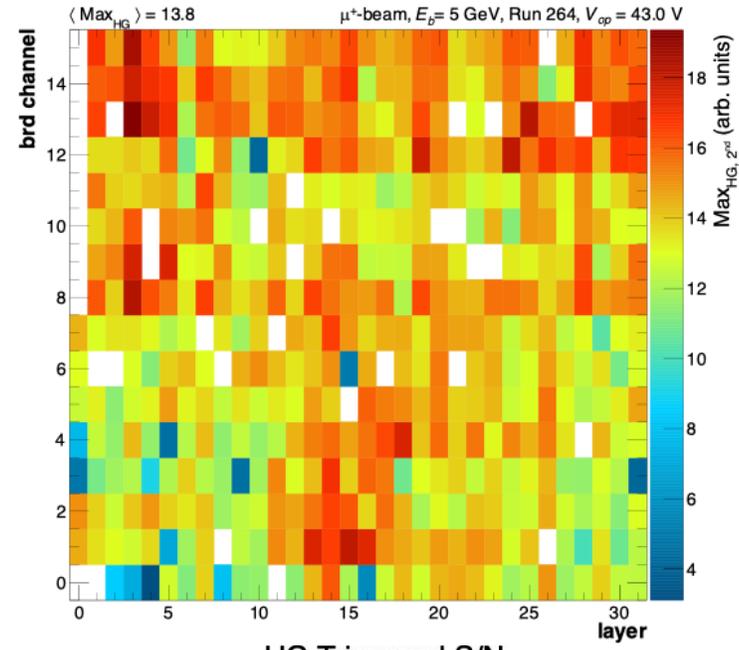


layer 5



# 264: 43V

layer 5



HG Triggered S/N

