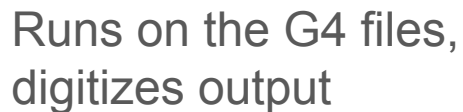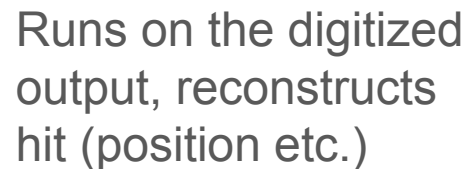# GEM Digitization Update

January 15th, 2024

Setup

- Current setup in the cooker: gemini_digi program -> gemini program
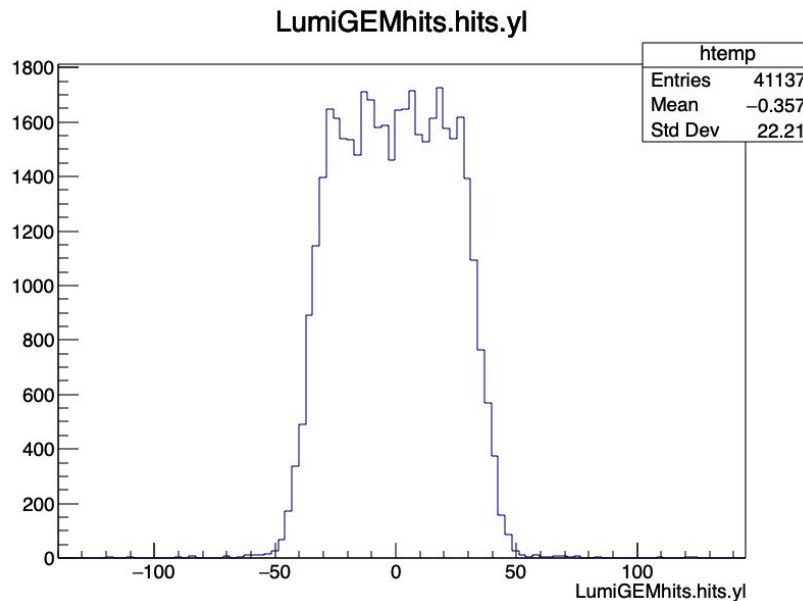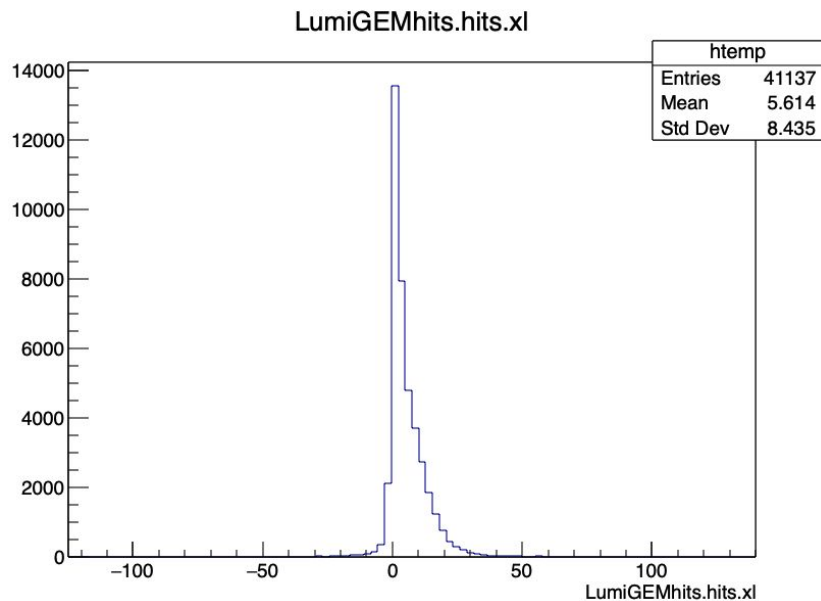
Runs on the G4 files, digitizes output

Runs on the digitized output, reconstructs hit (position etc.)

- Was setup for the MUSE GEMs, so have been slowly modifying to bring it into agreement with the DL GEMs
- Last week: reconstruction step was not producing hits

Current Status

- Fixed issue caused by the gains not being set
- And one stray geometry translation issue
- Now have hits!

Current Status

- Fixed issue caused by the gains not being set
- And one stray geometry translation issue
- Now have hits!
- Current physical GEM geometry is correct
- …but still just using two very large APVs per axis
- Work in progress: updating to more APVs

APV0	APV1

AP V0	40 cm
AP V1	25 cm