

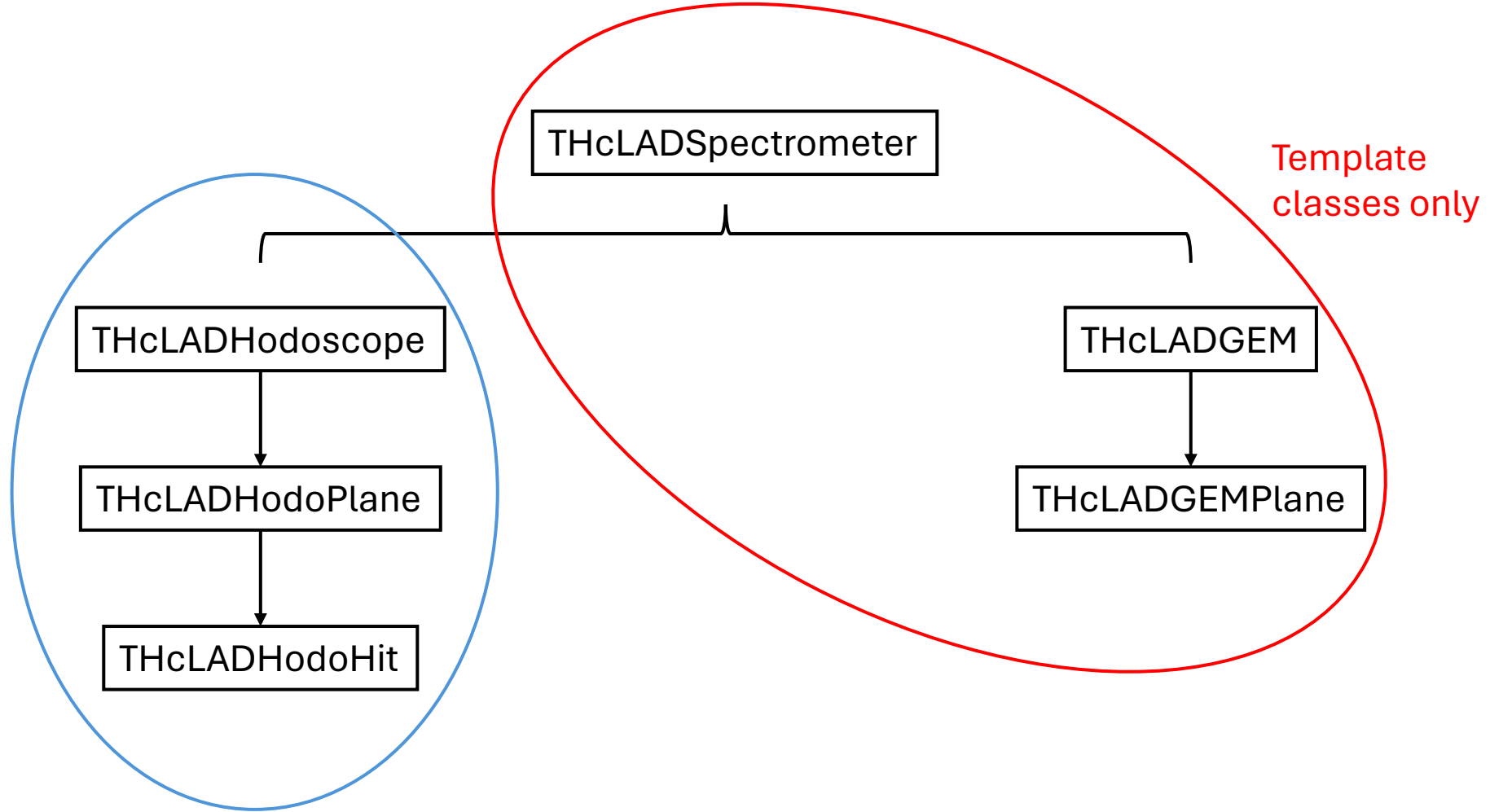
LAD Software & Sim Update

06/03/2024

Lucas Ehinger

LADlib Class Structure

Copy & Paste
from hcana
THcHodoscope



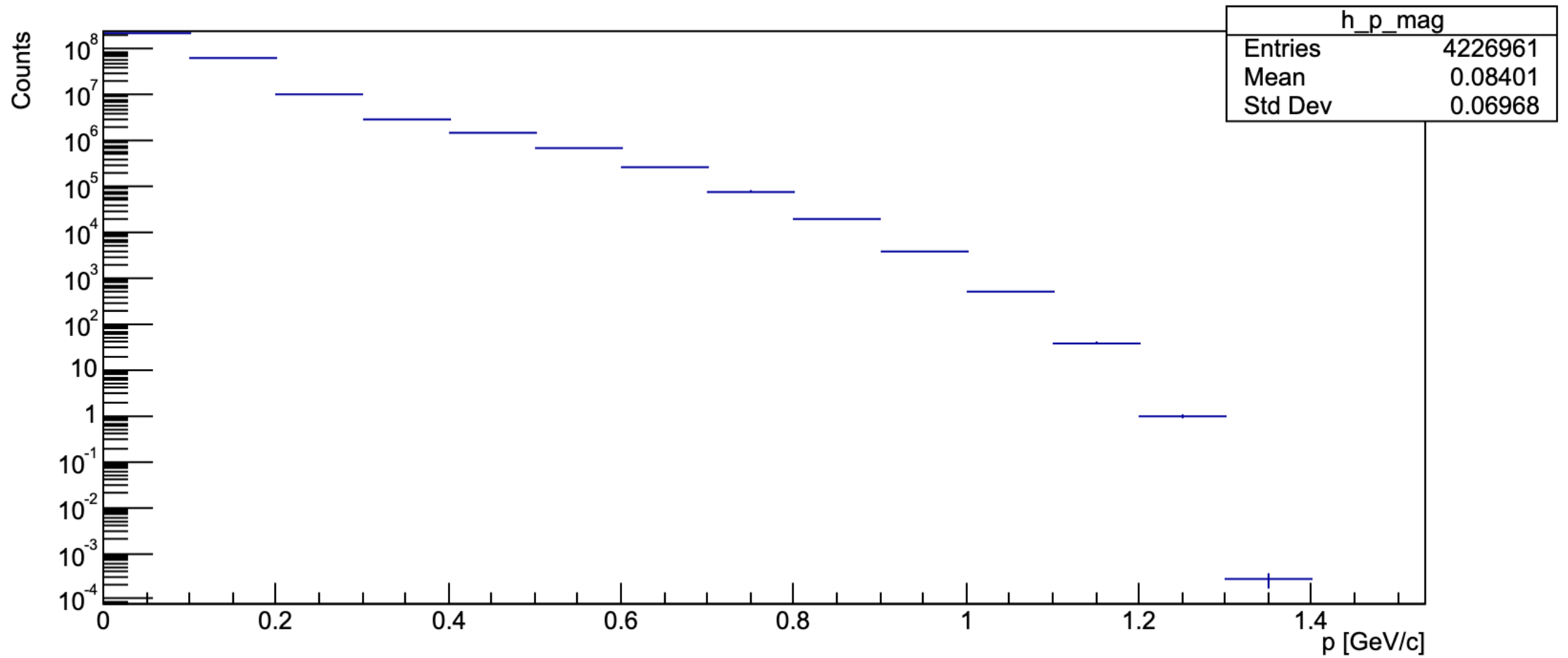
LAD replay

- Start with NPS_replay library
 - Casey's suggestion (not using Cafe)
- Done:
 - Replayed nps data
 - Compiled LADlib with hcana & NPS_replay
 - Added LADSpectrometer & Hodoscope to nps replay
 - Routed detector map to LADHodoscope
 - THcLADSpectrometer & THcLADHodoscope compile & run
- Todo:
 - Fix runtime errors in THcLADHodoPlane
 - Adapt code for LAD specifics
 - Later: Same for GEMs

Deuteron DIS Gen

- Fixed to run on Alma9
- Adapted to simulate backwards protons
- Todo (not high priority):
 - Radiative corrections?
 - Form factor
- Rough distributions look reasonable

Recoil momentum



Recoil Angle: Theta

