

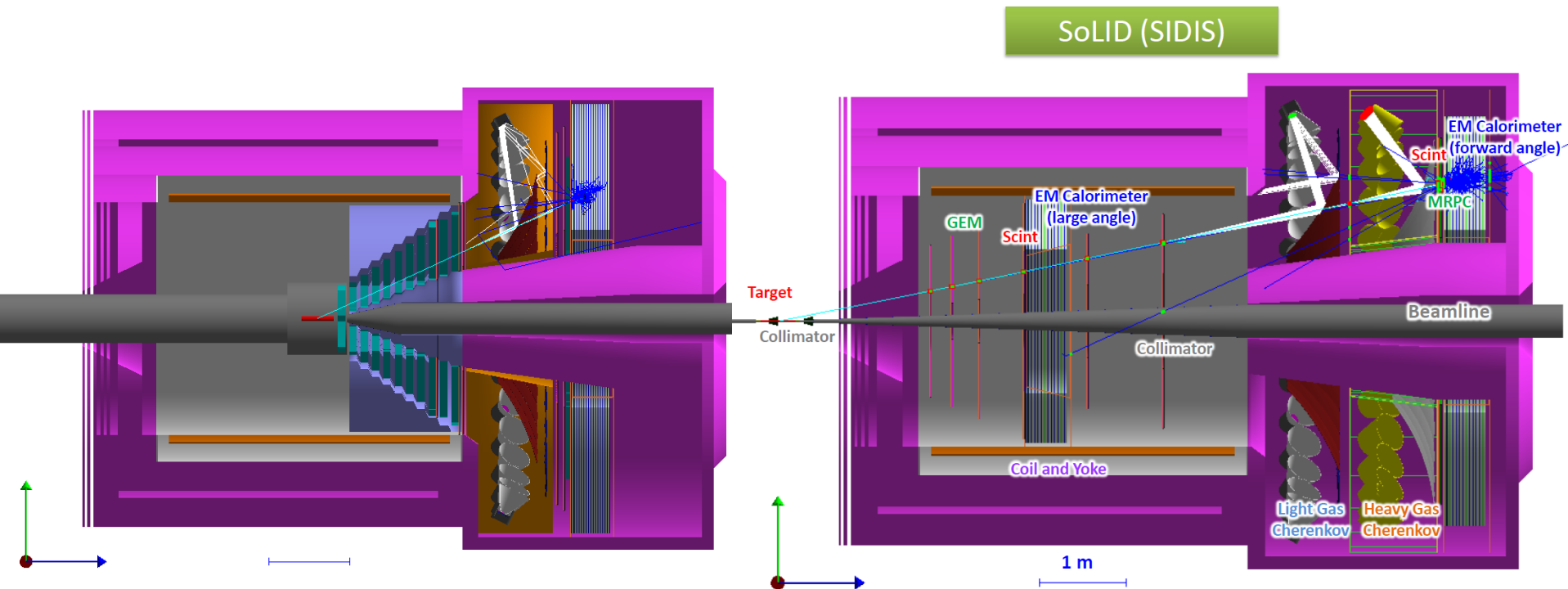
SoLID Acceptance

Zhiwen Zhao

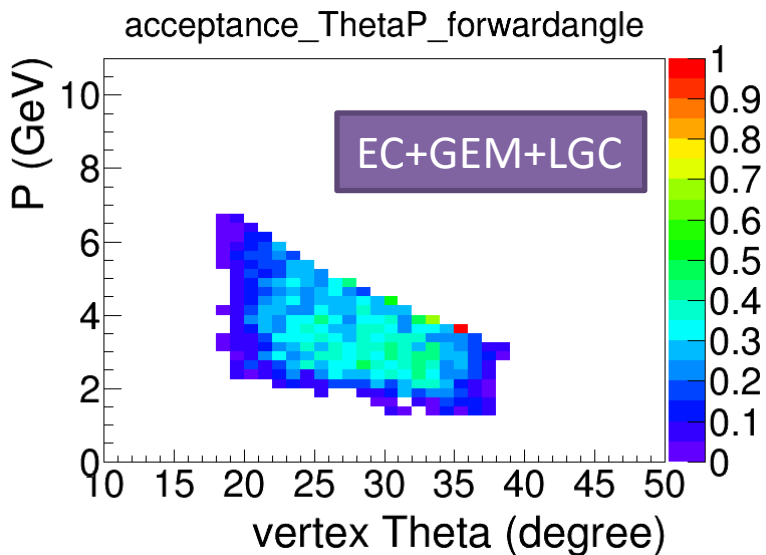
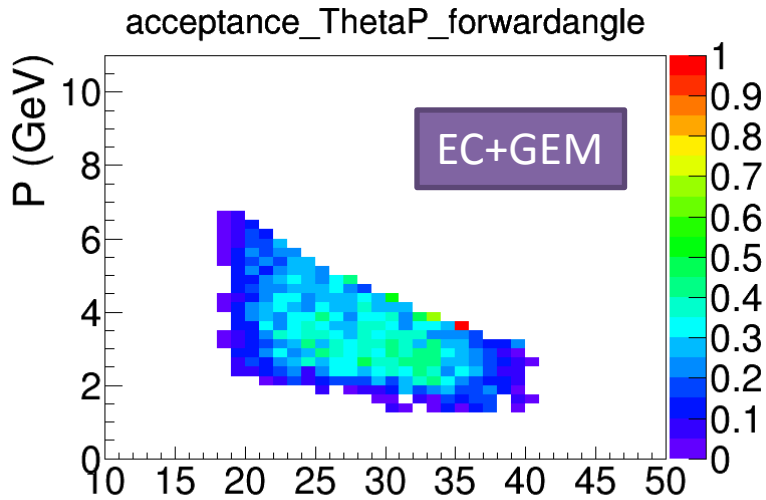
2016/7/28

Full Simulation and file sharing

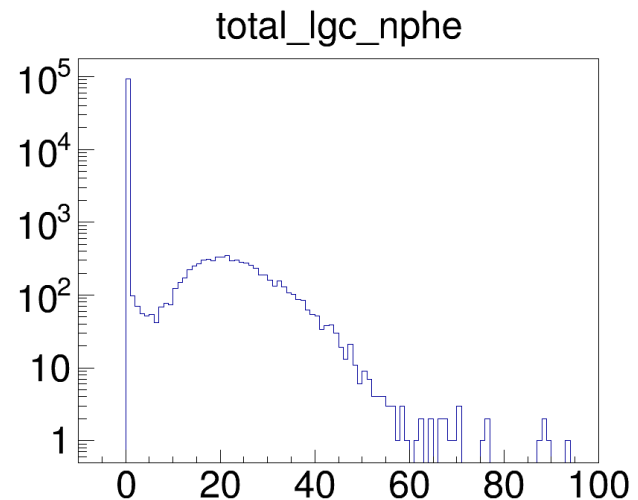
- We run full simulation in “solid_gemc” with all subsystems and generate various files at a shared central location
- They can be used for studies like acceptance, trigger, background, GEM etc and ensure consistent results



PVDIS acceptance



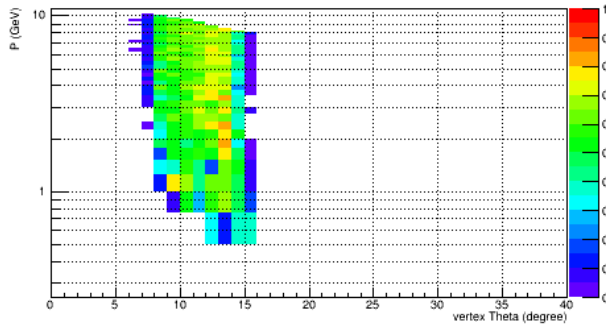
- A simple test, not complete study
- Throw eDIS into PVDIS full simulation, consider it's accepted when
 - it passes all GEM planes and entering EC
 - In addition, LGC has number of total photons > 10
- Essentially it will need to involve from a simple into a full reconstruction code



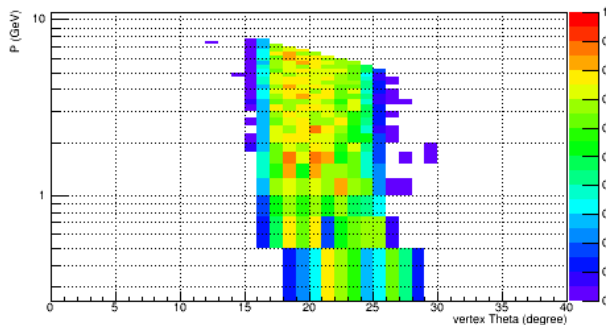
SIDIS_He3 acceptance

e-

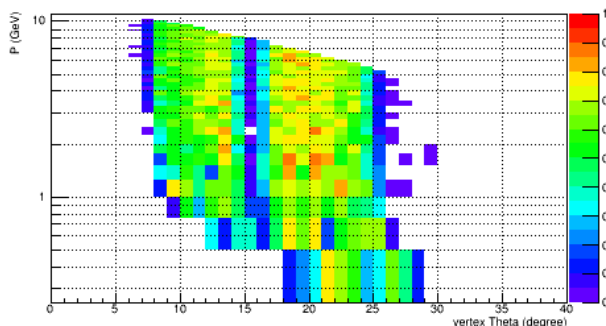
acceptance_ThetaP_forwardangle



acceptance_ThetaP_largeangle

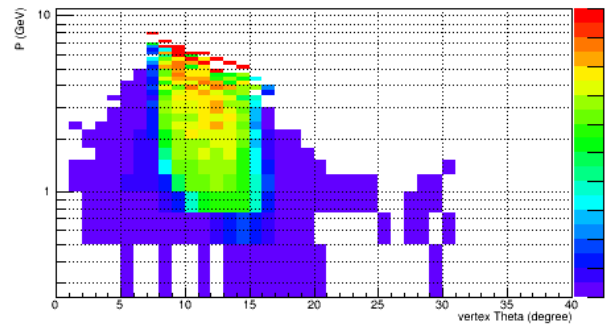


acceptance_ThetaP_overall

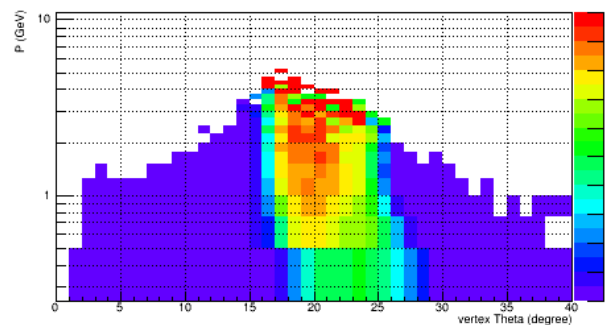


pi-

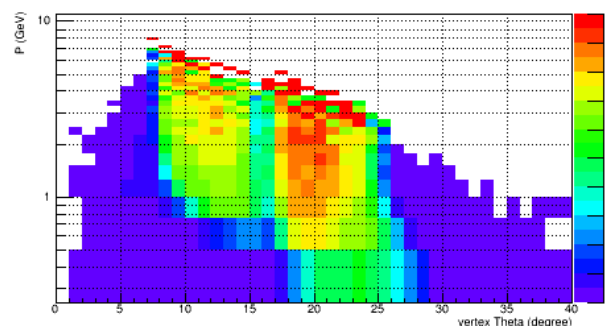
acceptance_ThetaP_forwardangle



acceptance_ThetaP_largeangle



acceptance_ThetaP_overall



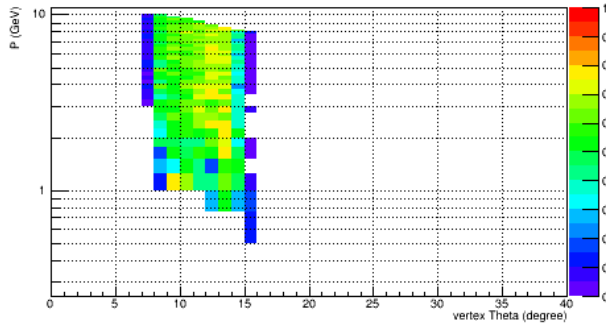
- A simple test, not complete study
- Throw eDIS or pimWiser into SIDIS_He3 full simulation, consider it's accepted when
 - it passes all GEM planes and entering EC
 - In addition, LGC or HGC has number of total photons > 10
- Essentially it will need to involve from a simple into a full reconstruction code

SIDIS_He3 acceptance

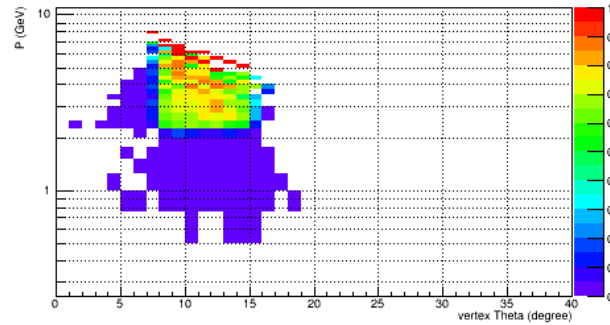
e-

pi-

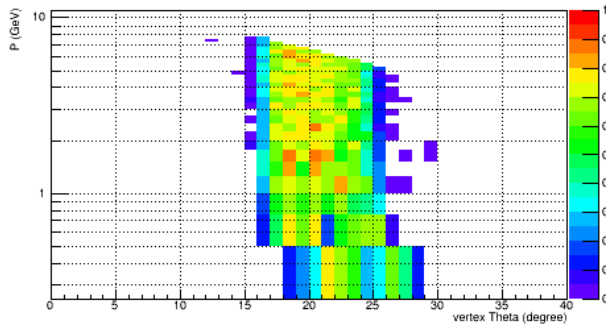
acceptance_ThetaP_forwardangle



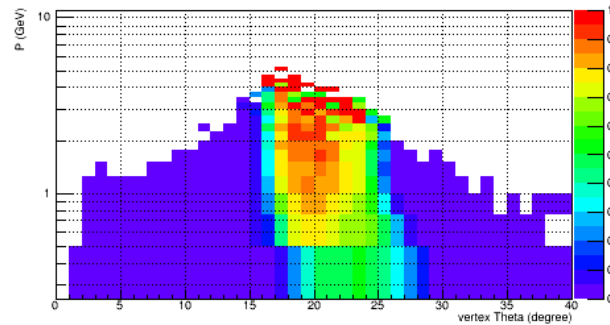
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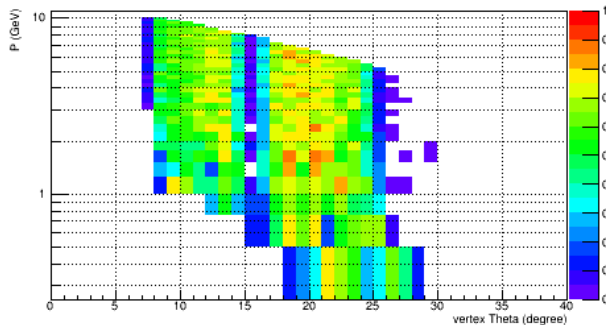
acceptance_ThetaP_largeangle



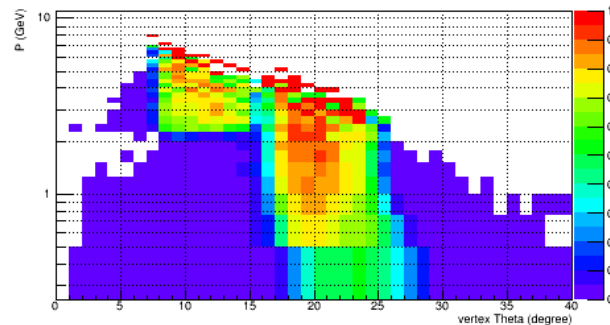
acceptance_ThetaP_largeangle



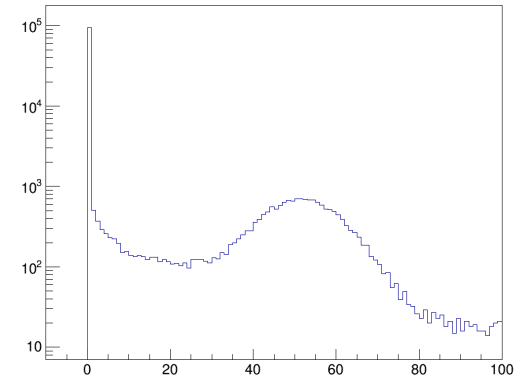
acceptance_ThetaP_overall



acceptance_ThetaP_overall



total_lgc_nphe



total_hgc_nphe

