

Some Cerenkov Simulation Plots

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Plots

- Made some first plots from the new Geant4 MC samples here:

</afs/desy.de/group/flc/luxe/background/lhmerged/others/>

- simple histogramming script using MakeClass on “Tracks” tree → NAF batch system (do we want some central code if we are all making the same plots?)

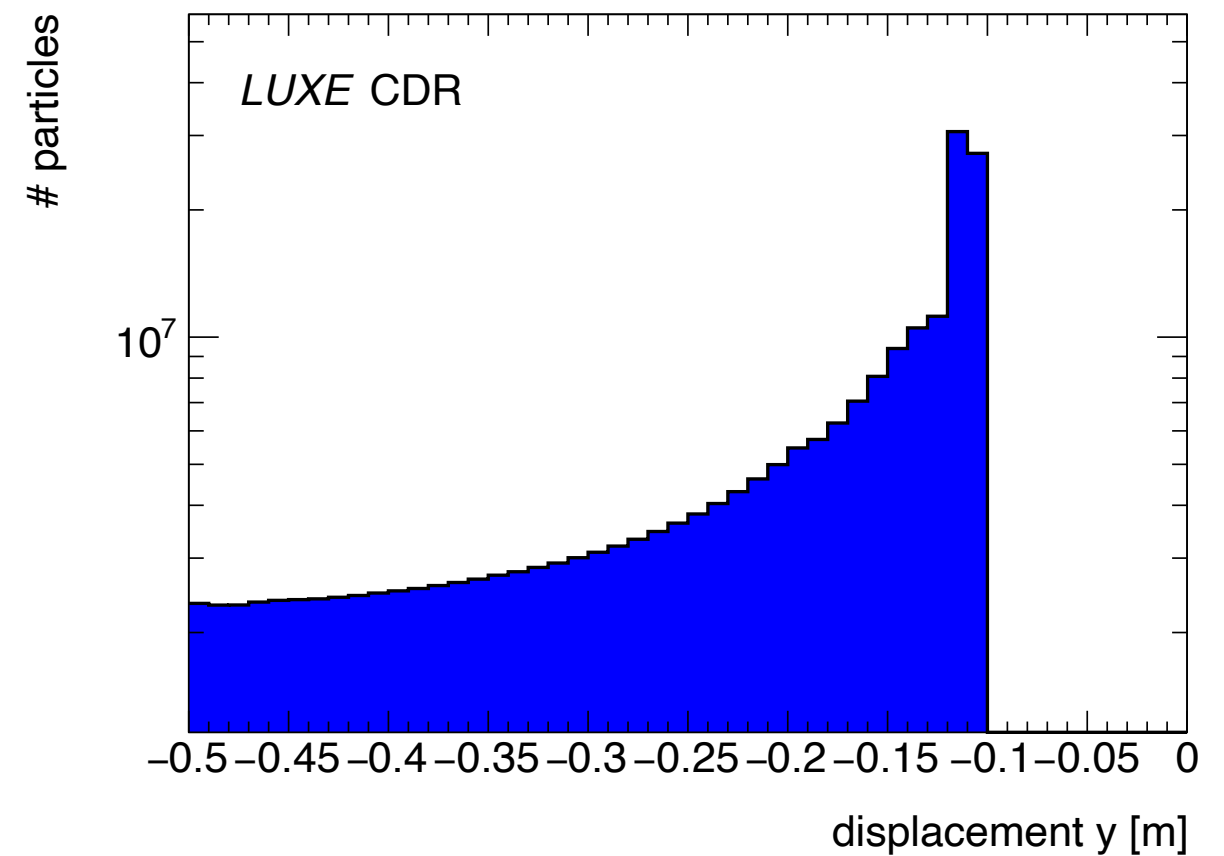
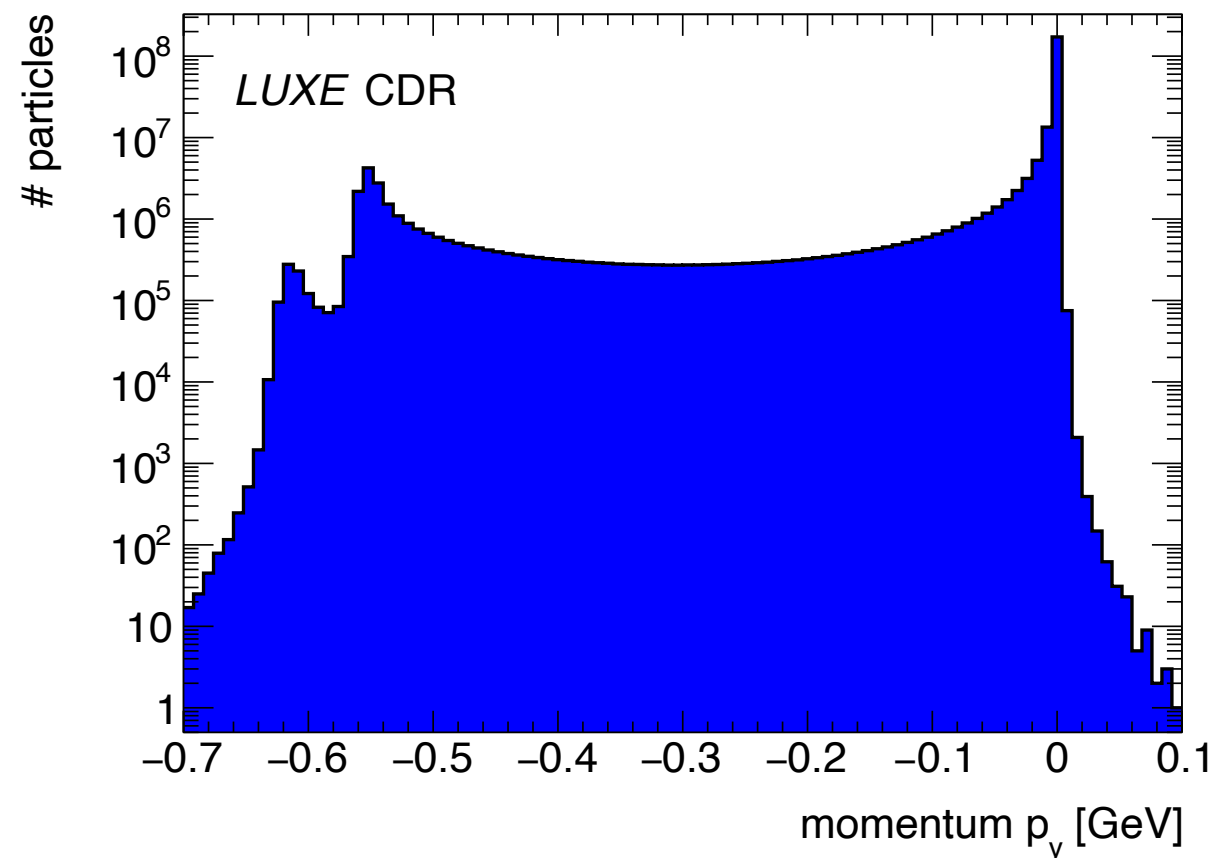
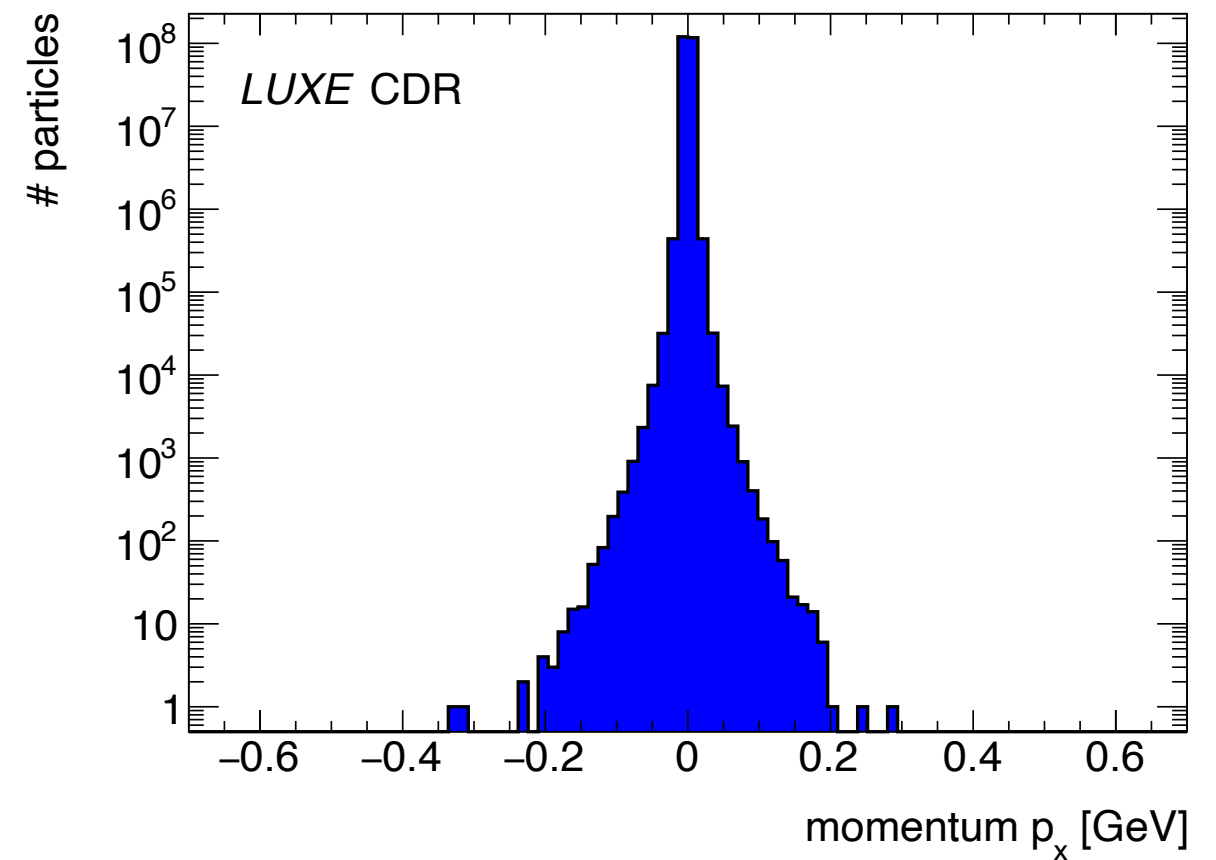
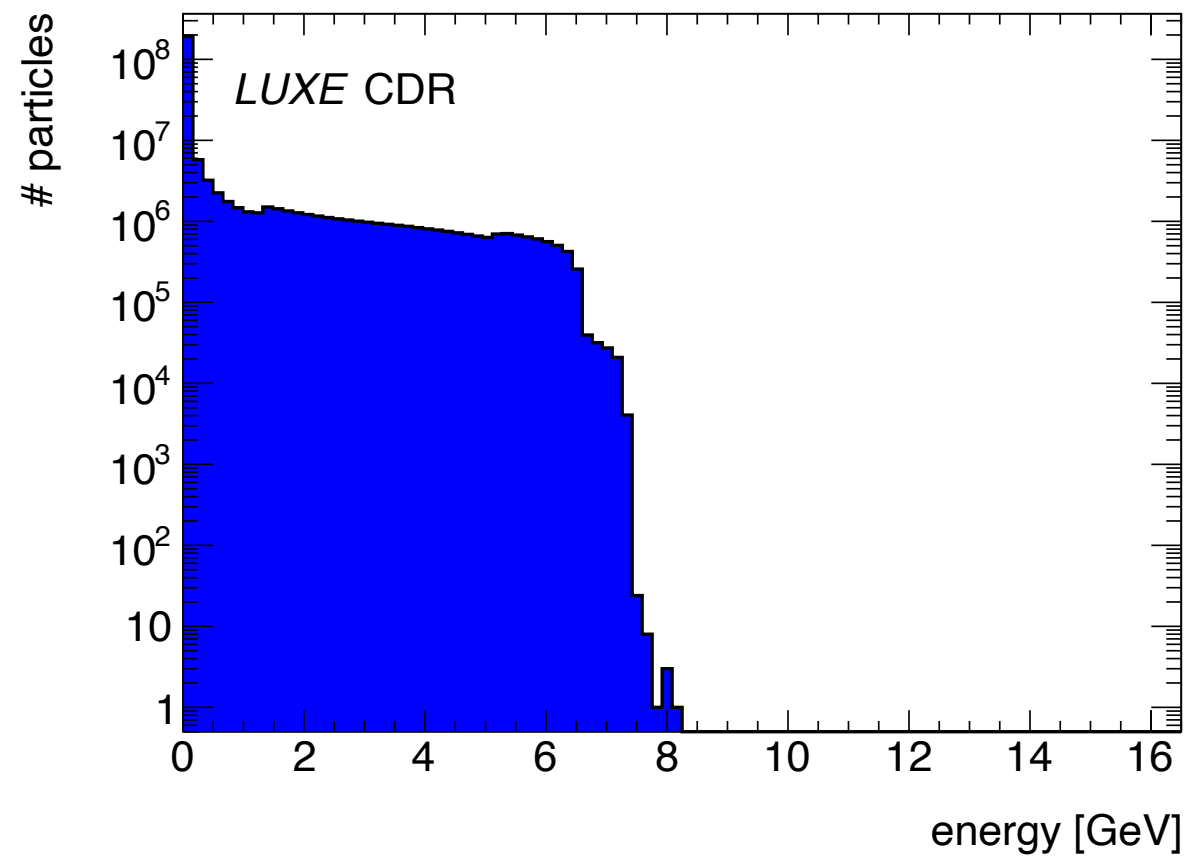
Some Questions:

- how many BX the generated samples correspond to?

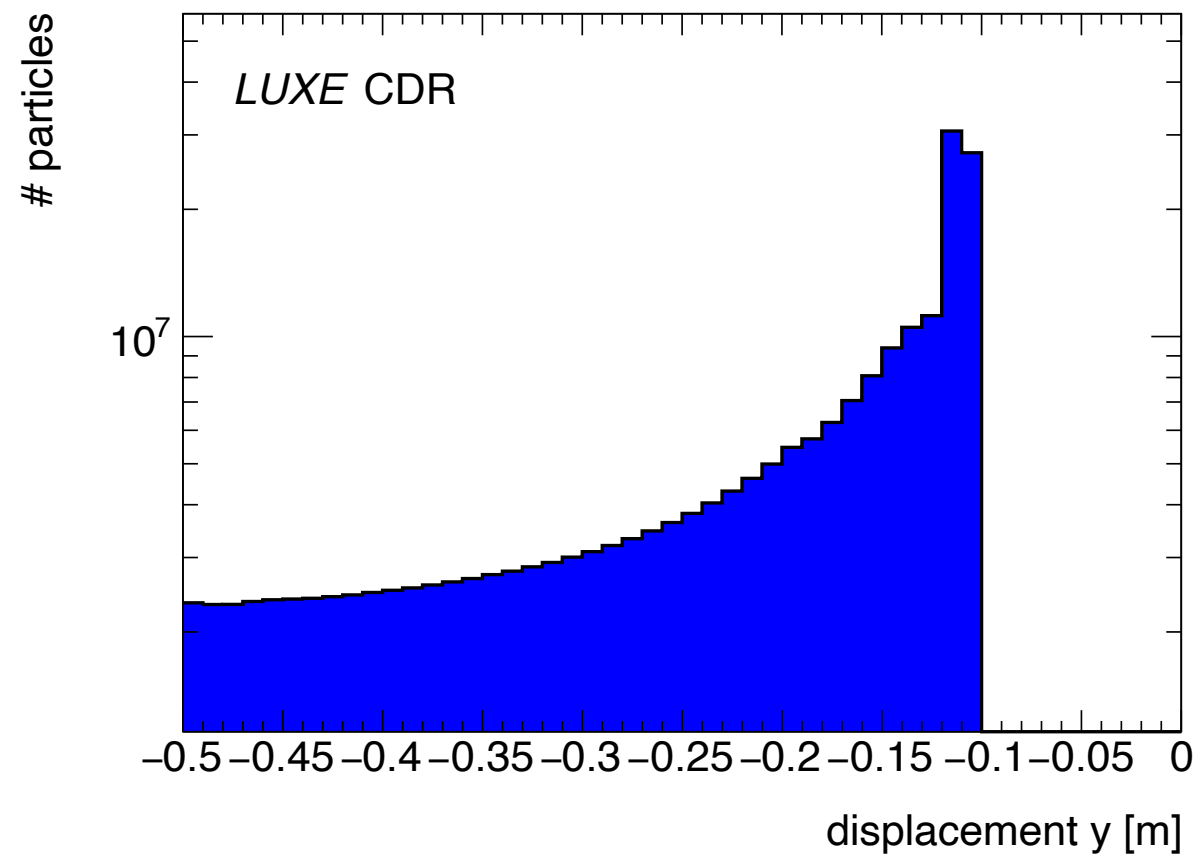
Sensitive volumes

/lux/run/add_intercept_volume	OPPPSensorFlex:1000
/lux/run/add_intercept_volume	OPPPECal:2000
/lux/run/add_intercept_volume	LysoCal:3000
/lux/run/add_intercept_volume	GammaCalo:4000
/lux/run/add_intercept_volume	IPVolume:5000
/lux/run/add_intercept_volume	scintArmPhysical:6000
/lux/run/add_intercept_volume	CerenkovWingPhysical:6100
/lux/run/add_intercept_energy_c	ut IPVolume 0.5 GeV
/lux/run/add_sensitive_volume	OPPPSensitive:1000:0:1
/lux/run/add_sensitive_volume	ECalSensor:2000:3:2
/lux/run/add_sensitive_volume	LysoCal:3000:0:1
/lux/run/add_sensitive_volume	LeadGlass:4000:1:0

Plots (not yet super pretty)



Plots (not yet super pretty)



Comparing different Energy thresholds

