

Cherenkov simulation update

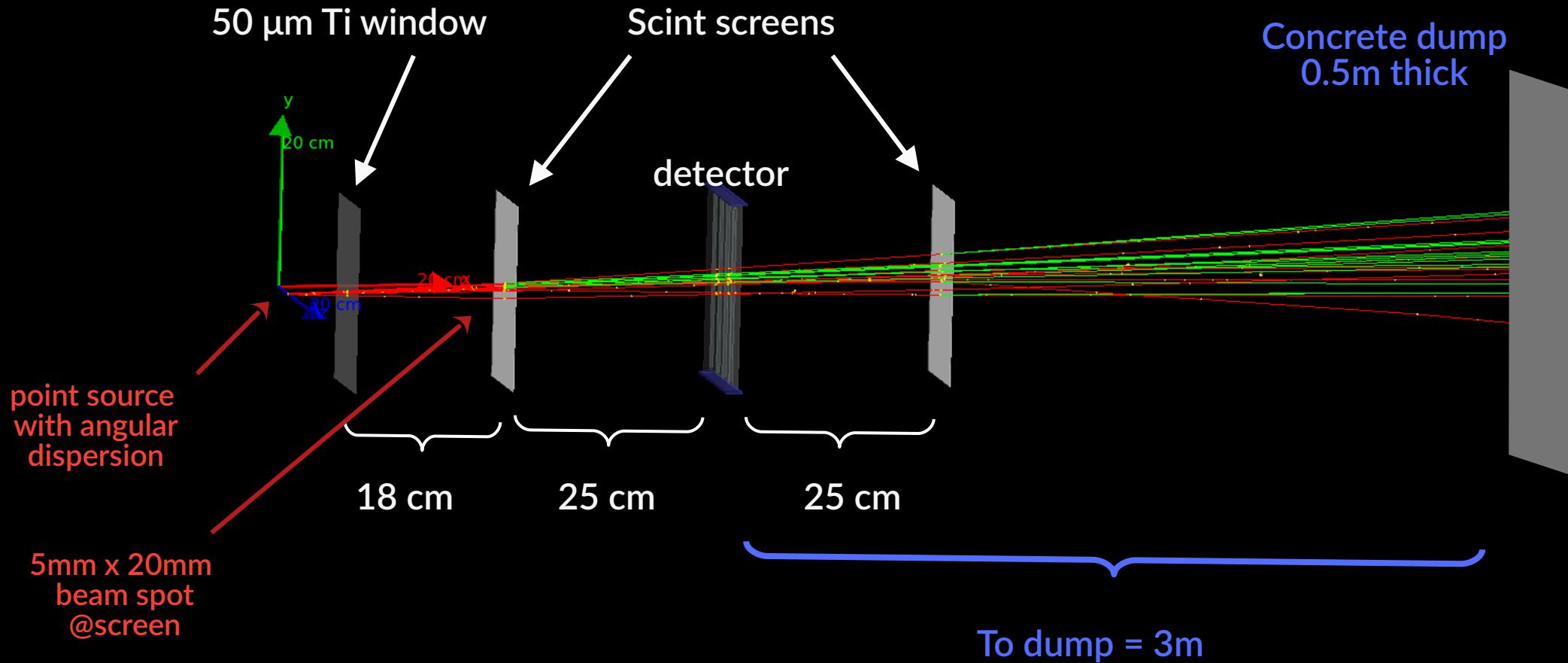
Evan Ranken

LUXE



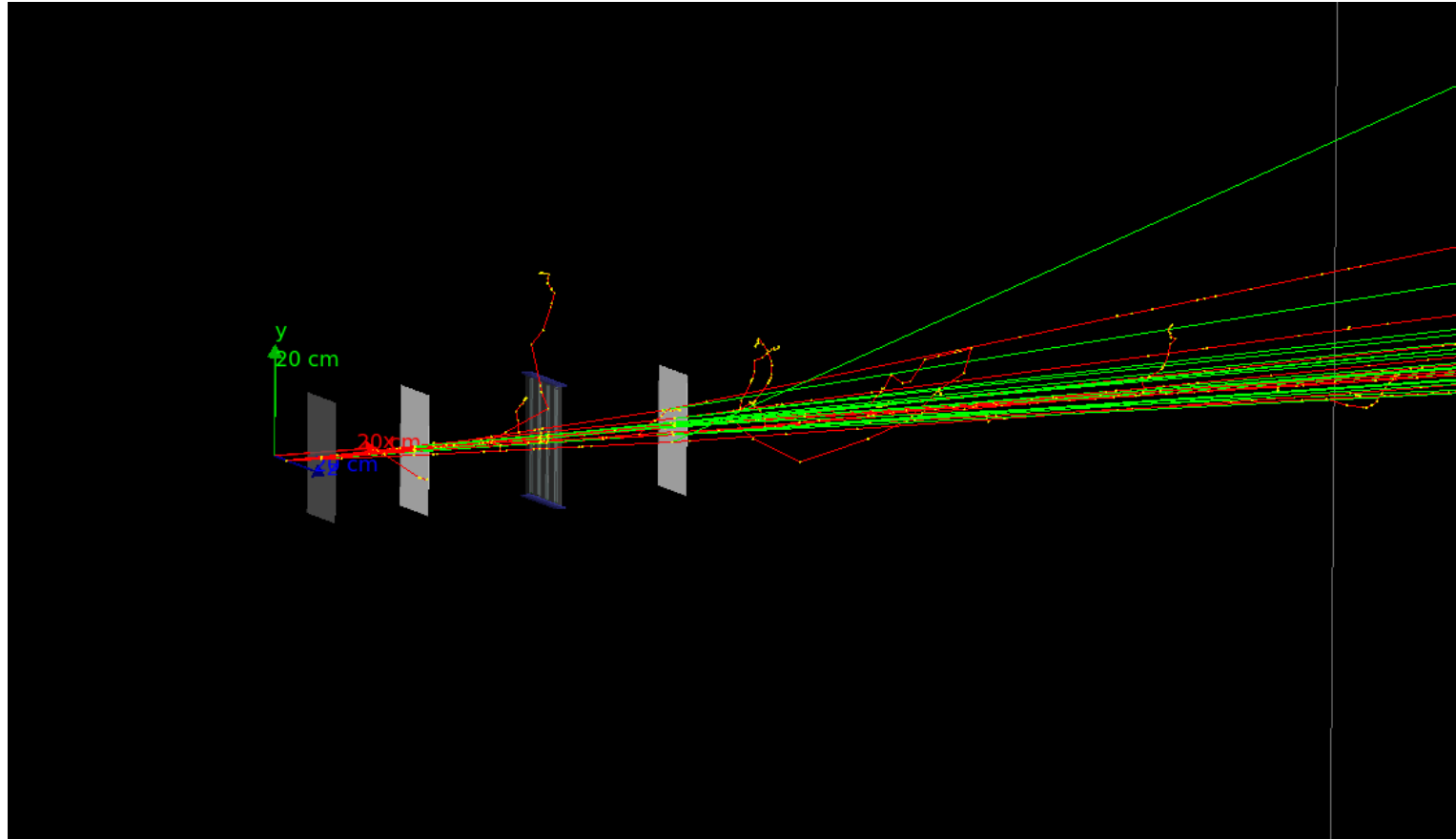
09.11.23

Setup

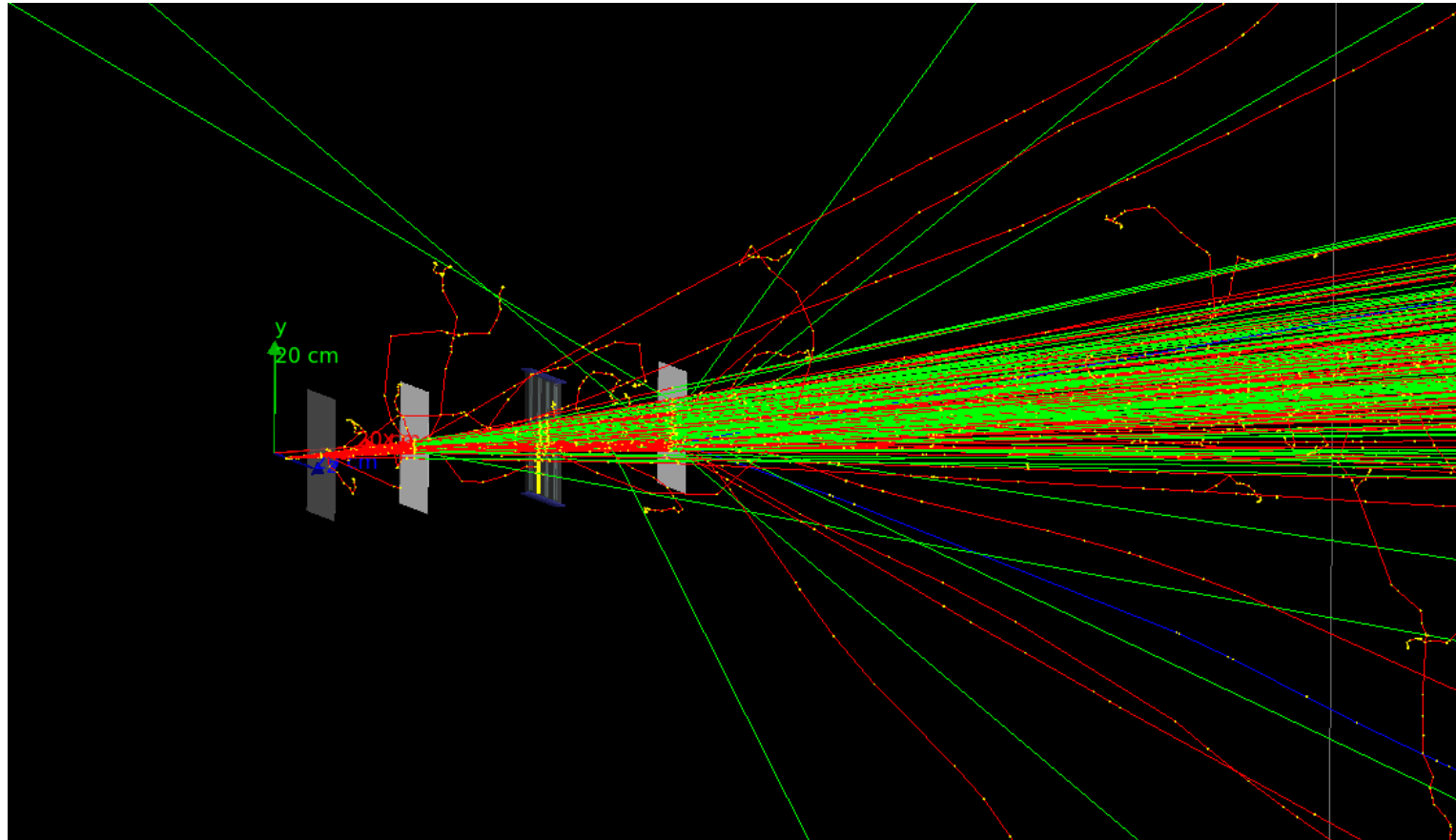


- ◆ First thing to check:
 - ◇ Does adding the dump affect number of SiPM hits, either via optical photon production or direct hits?
 - ◇ These plots: just looking at case with :
 - `reflectivity=1`
 - `polishing=1`
 - `angle = 0`

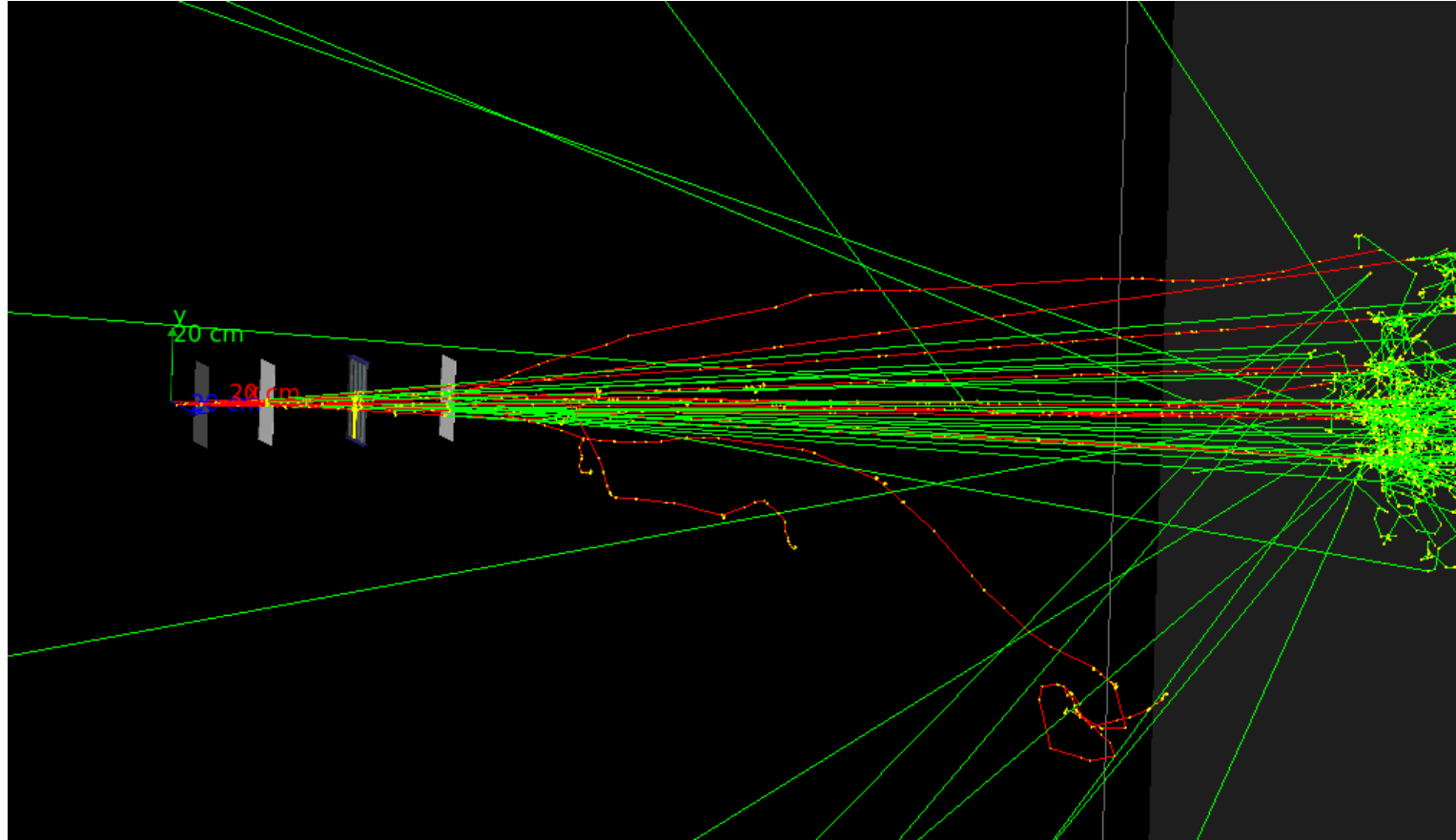
- ◆ No dump
- ◆ 10 primaries



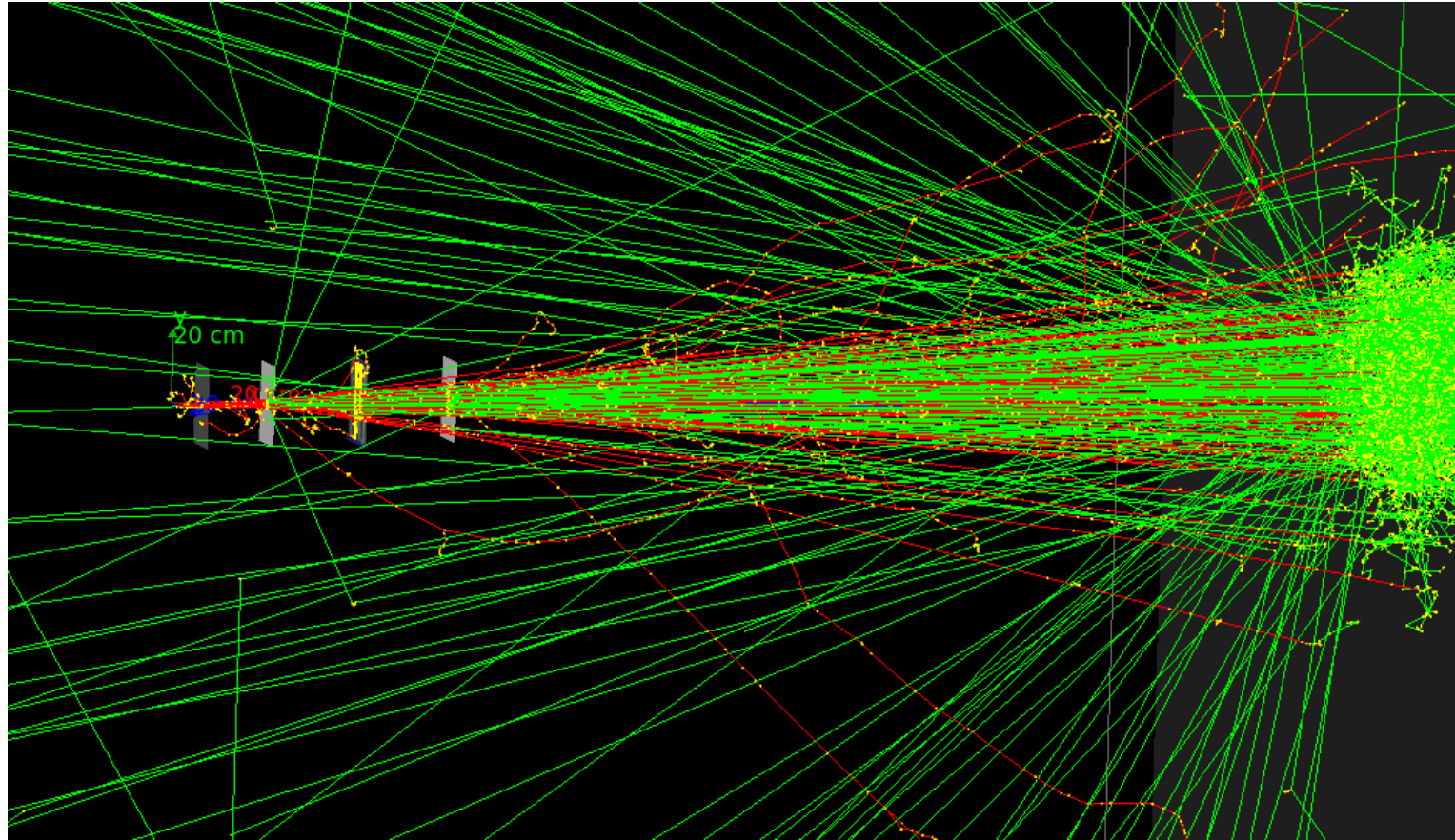
- ◆ No dump
- ◆ 100 primaries



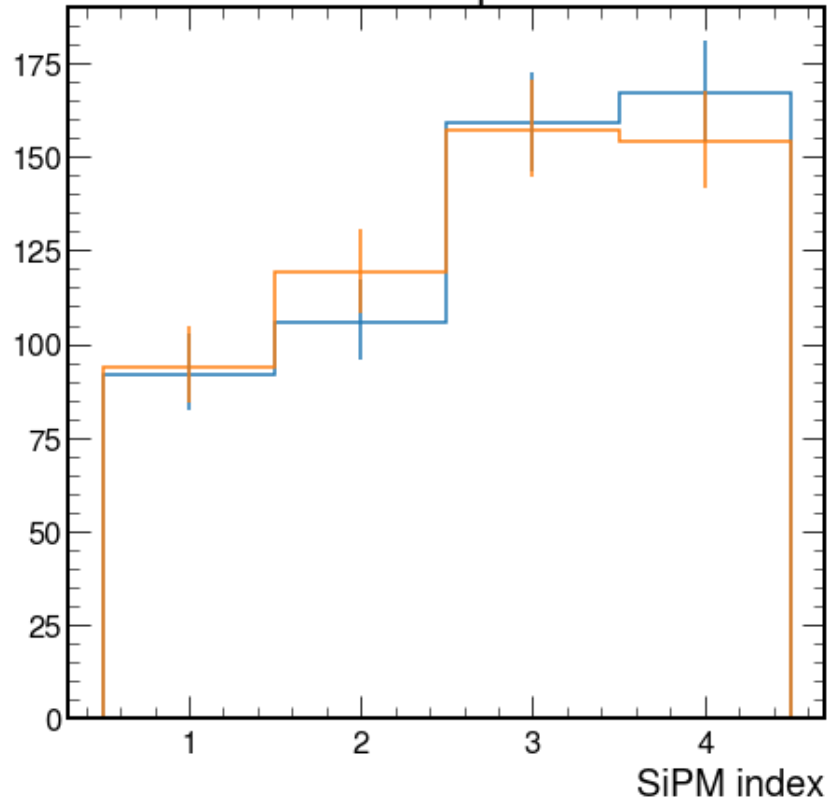
- ◆ With dump
- ◆ 10 primaries



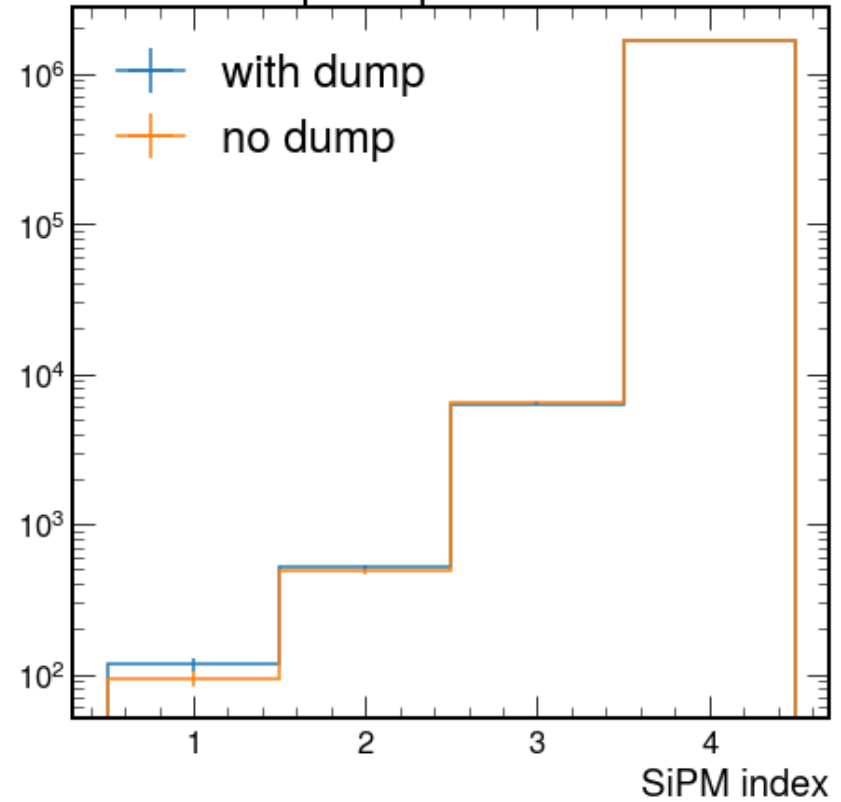
- ◆ With dump
- ◆ 100 primaries



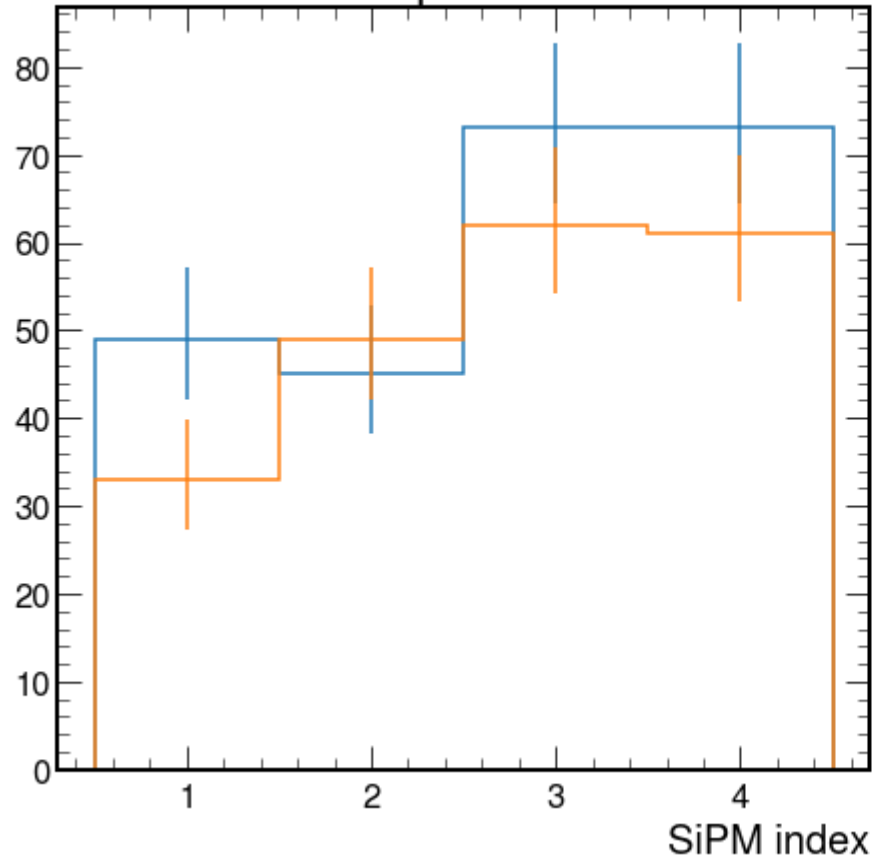
Direct electron/positron hits



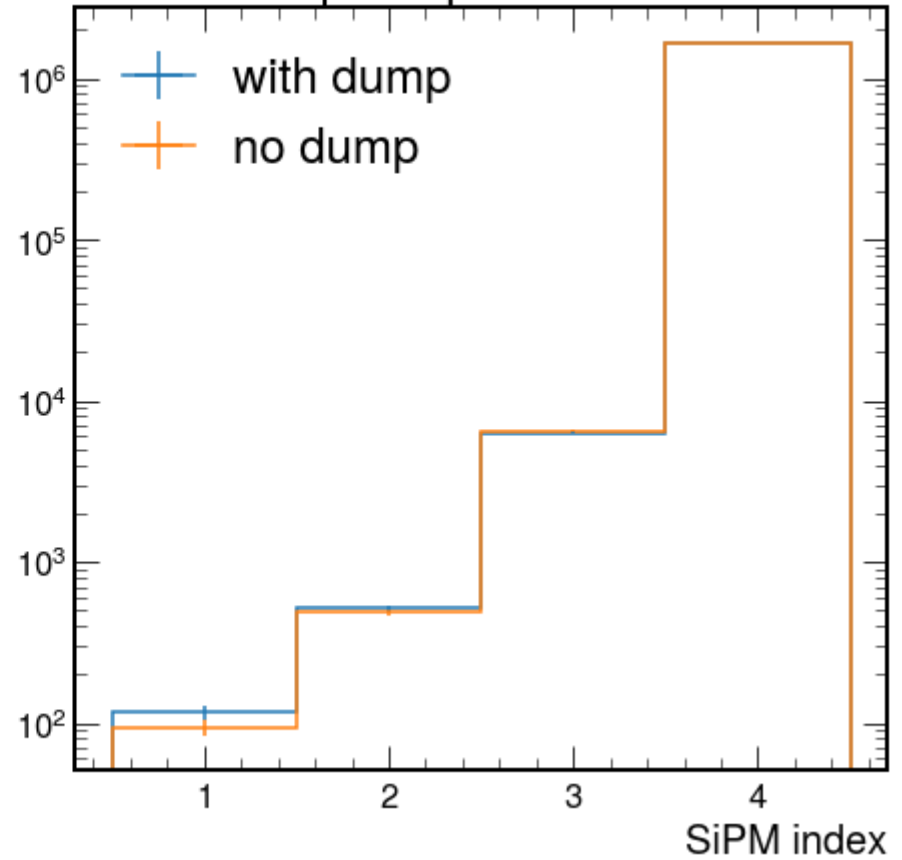
Optical photon hits



Direct photon hits



Optical photon hits



Another way to check

