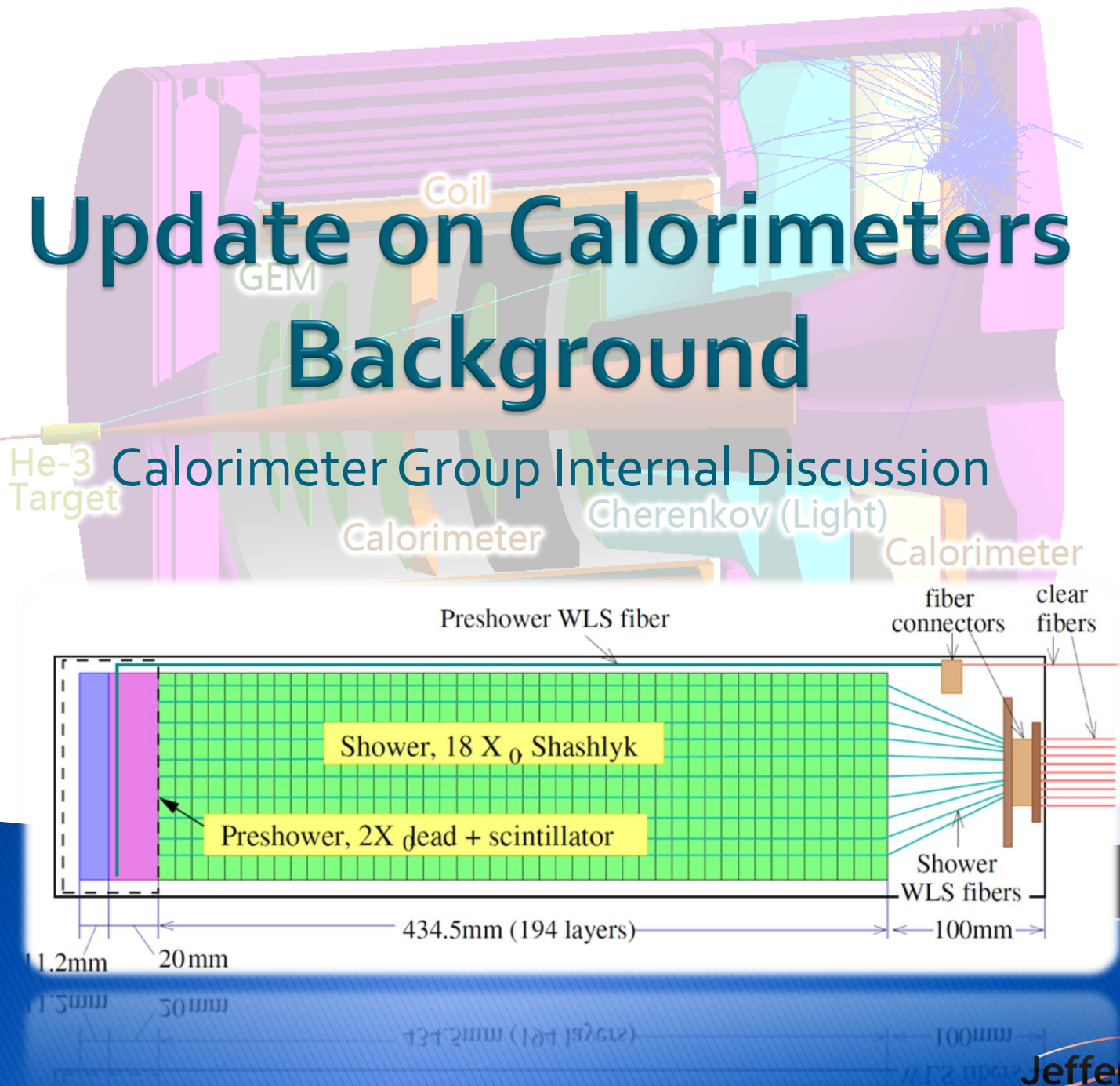


Update on Calorimeters

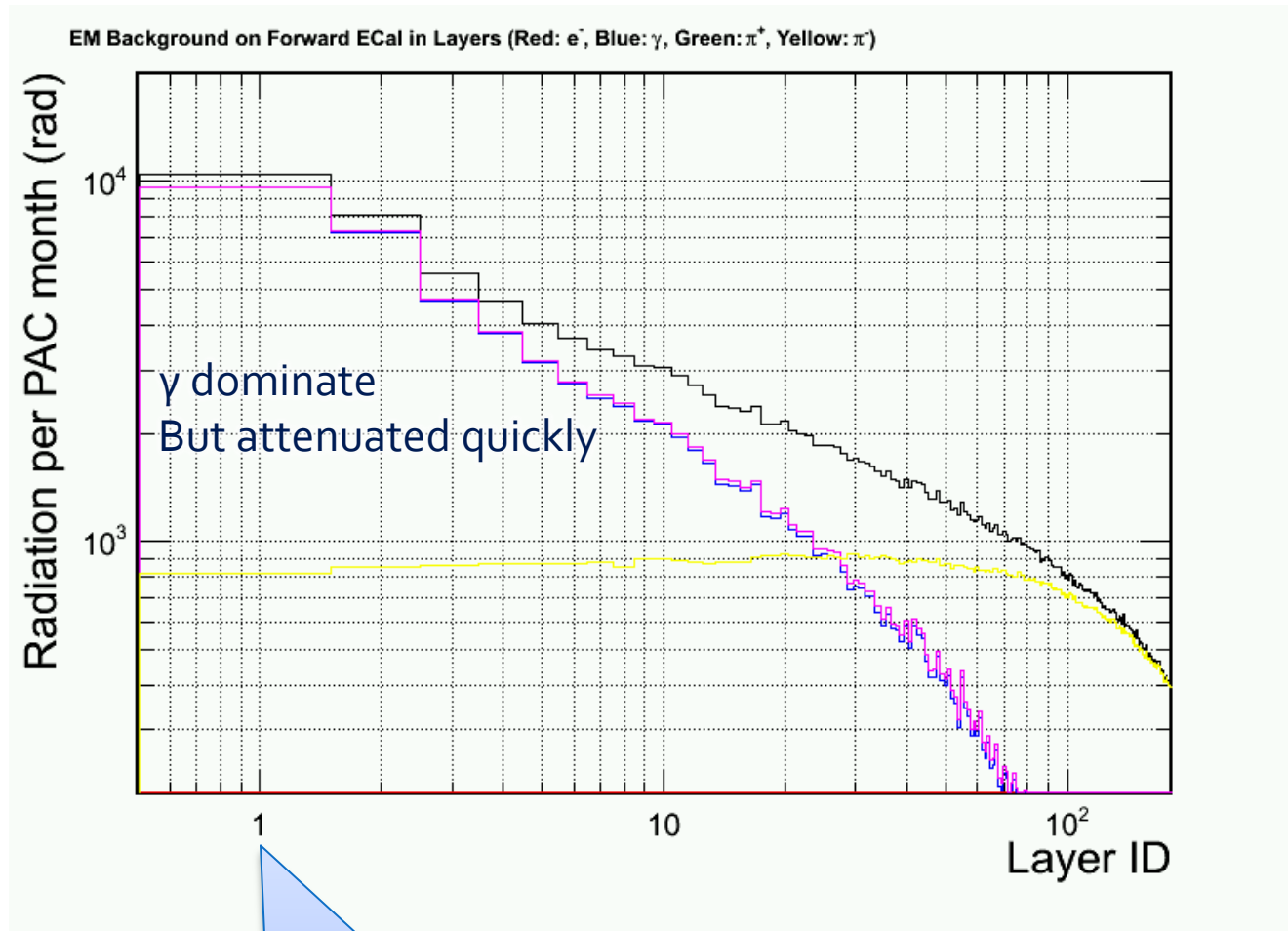
Calorimeter Group Internal Discussion



What's new

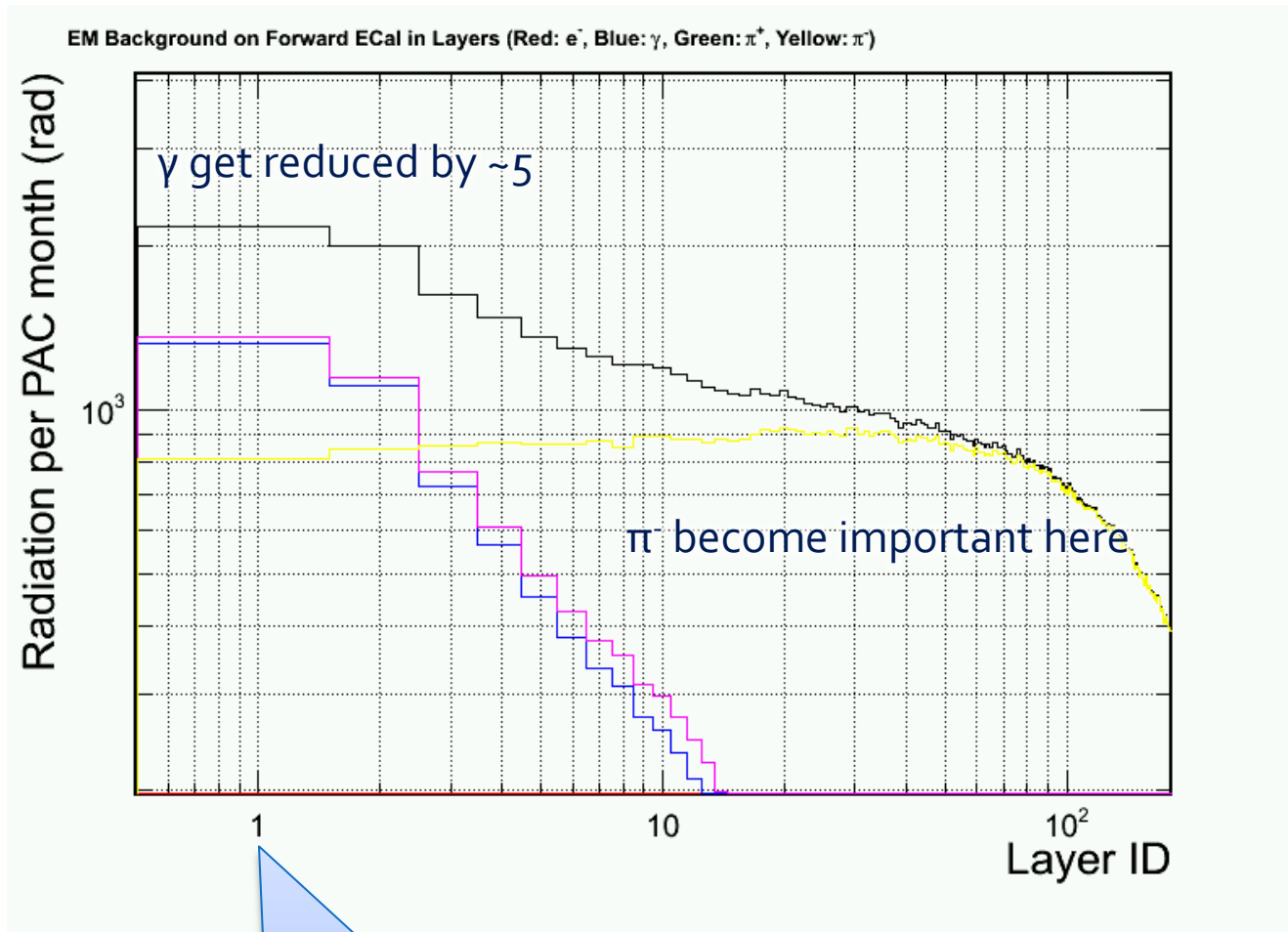
- ▶ LHCb/HERMES preshower, instead full Shashlyk preshower
 - As shown before, the preshower scintillator receive most of the radiation, due to the low energy backgrounds
 - This part radiation dose are now absorbed in 2Xo absorber, and we just see its EM tail now
- ▶ New background distribution updated by Zhiwen
 - SIDIS:
 - With target collimator (suppress background by 4)
 - First large angle simulation
 - PVDIS: have option to remove direct photon sight (expected to be removed in the final baffle design)
- ▶ Dominating background, photons 1-10 MeV
 - After preshower, which attenuate them a lot, they still penetrate ~10 layers in Shashlyk

PVDIS – current baffle (with direct γ)



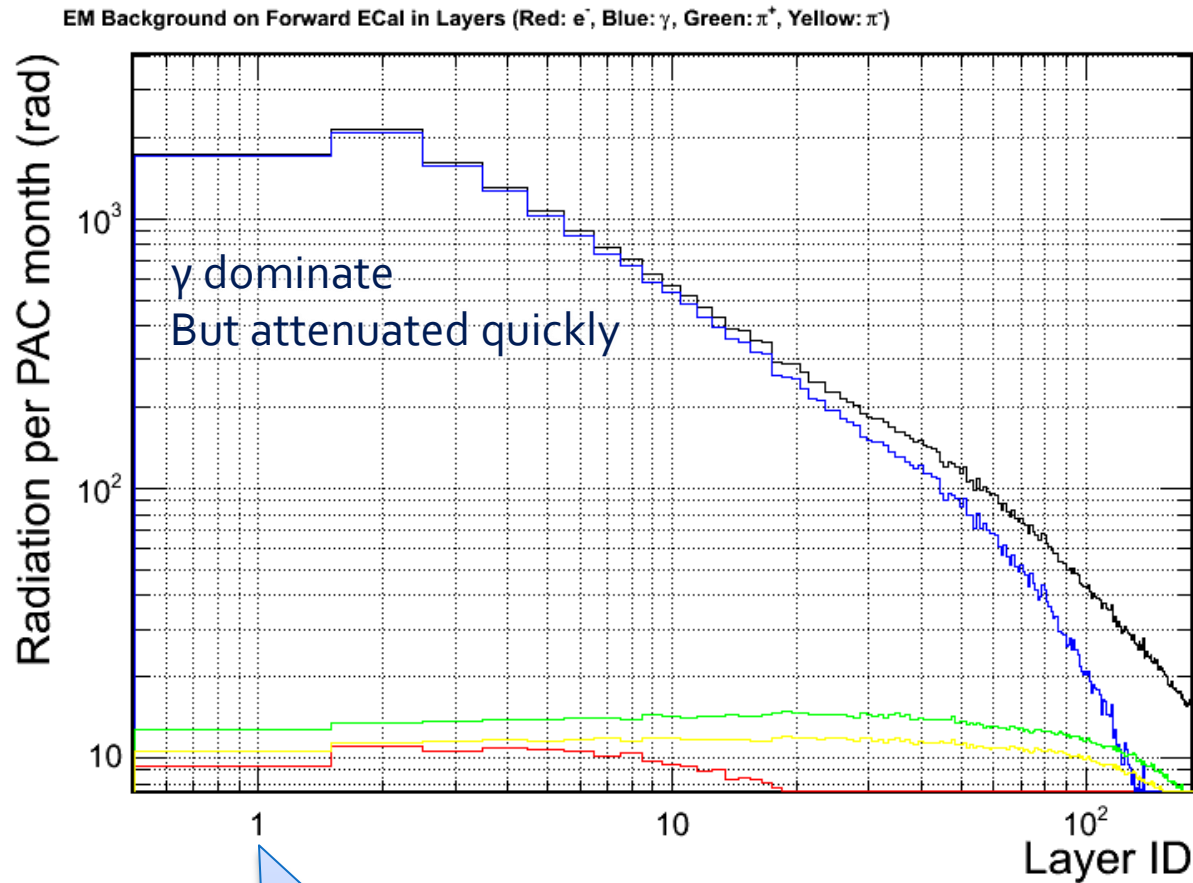
Layer #1 is 2cm
preshower scint.

PVDIS – preview for a baffle w/o direct γ



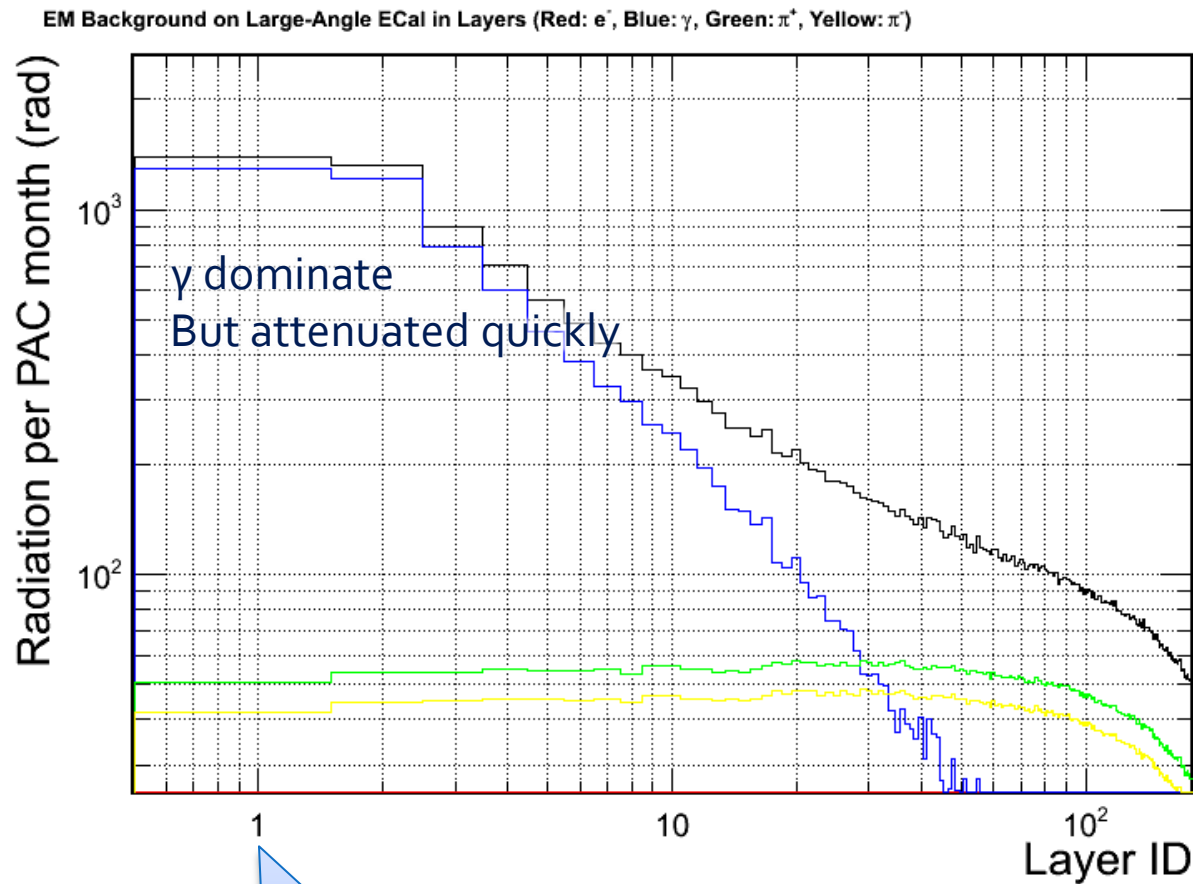
Layer #1 is 2cm
preshower scint.

SIDIS – Forward



Layer #1 is 2cm
preshower scint.

SIDIS – Large-Angle



Layer #1 is 2cm
preshower scint.