### Update on background energy rate in FastSim

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# Test background frame

- Exactly the same configuration except for lowering photon energy cut from 8 MeV to 0.1 MeV.
- 49k beam crossings are generated for testing.

Particles.Energy()\*1000 {Particles.GetPdgCode()==22&&Particles.Energy()<0.010}



### Energy rate in each ring



#### Compared to fullsim



# Conclusion

- Lowering photon energy threshold in background frame has a large effect in very forward and backward regions, but very little effect in barrel.
- Fastsim still shows background dominated by neutrons.
- Still a factor of 4-5 lower than what is found in Fullsim.