A proposal to validate the SDHCAL simulation in iLCSoft SDHCAL collaboration meeting

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random flat gun, fixed energy Number of hits π^+ (updated)

π +40 *GeV* **SIM.gun.multiplicity** = 2



π +40 *GeV* **SIM.gun.multiplicity** = 1



π⁺*TB*2018 (/2)?



The agreement is better, but still some offset.

random flat gun, fixed energy Number of hits by thershold, 1 particle

$\pi^+40\,GeV$



1200 1400 N3.N2.N1 number of hits



• Distributions behaving as expectedd

- We find a priory better agreement after the correction of the multiplicity / antiparticle.
- Still some discrepancy.
- There are several options for the distribution that a random gun can follow in ilcSoft. For these studies the uniform option was chosen.



Backup

