Status report
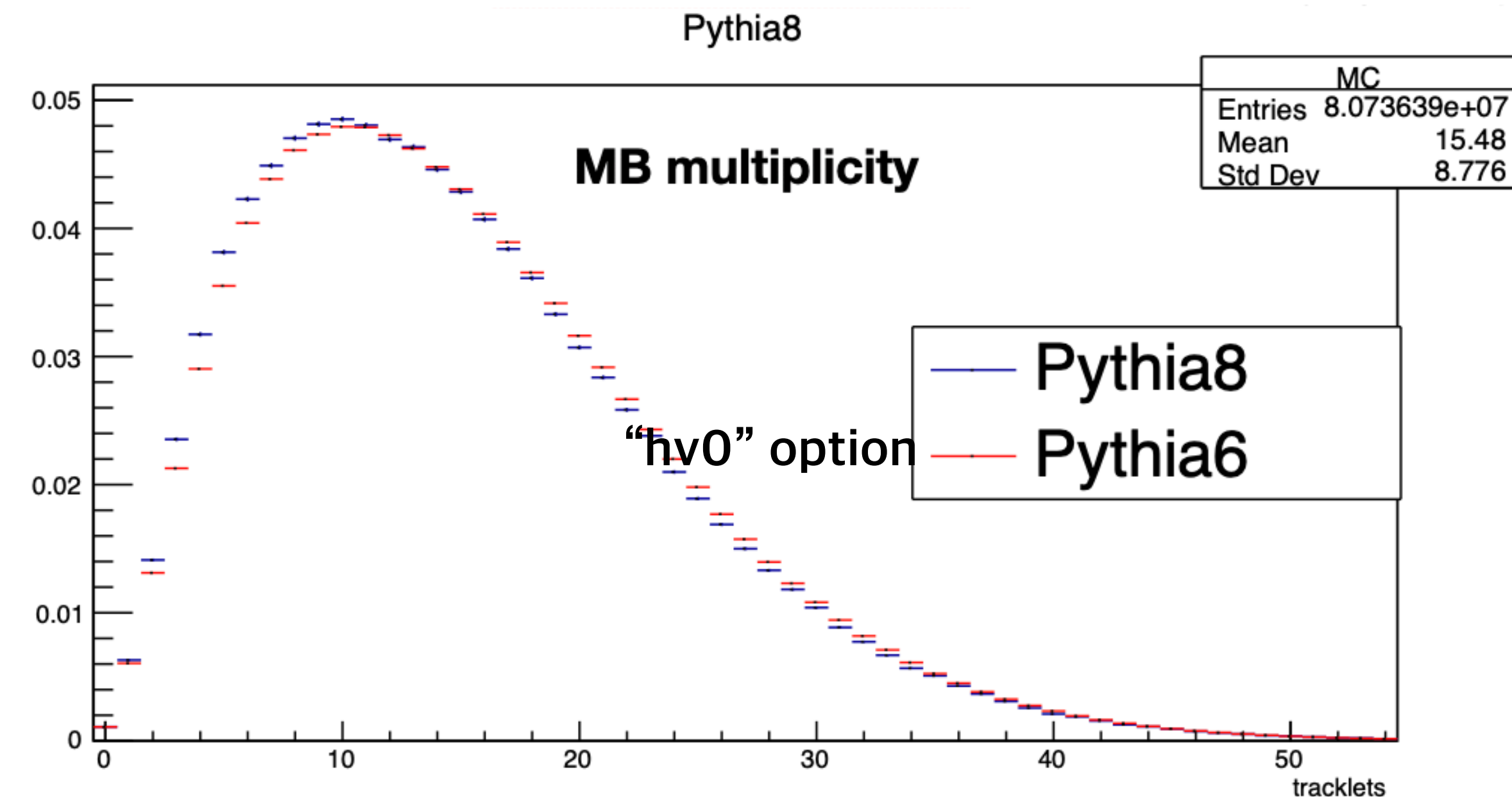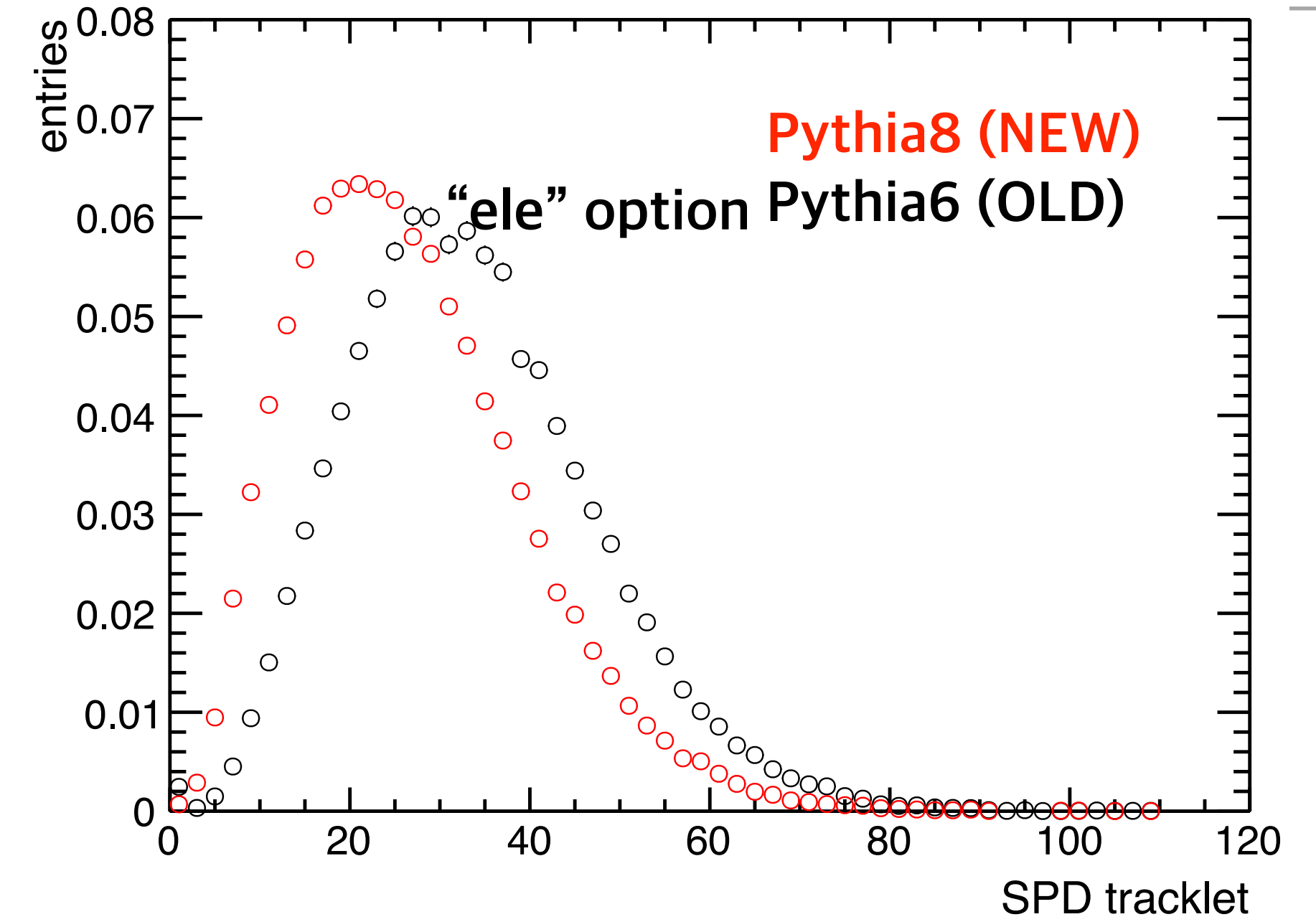
Jinjoo Seo*
Inha University*

2020.12.03

- QA for efficiency

- **Comparison of MC configuration**

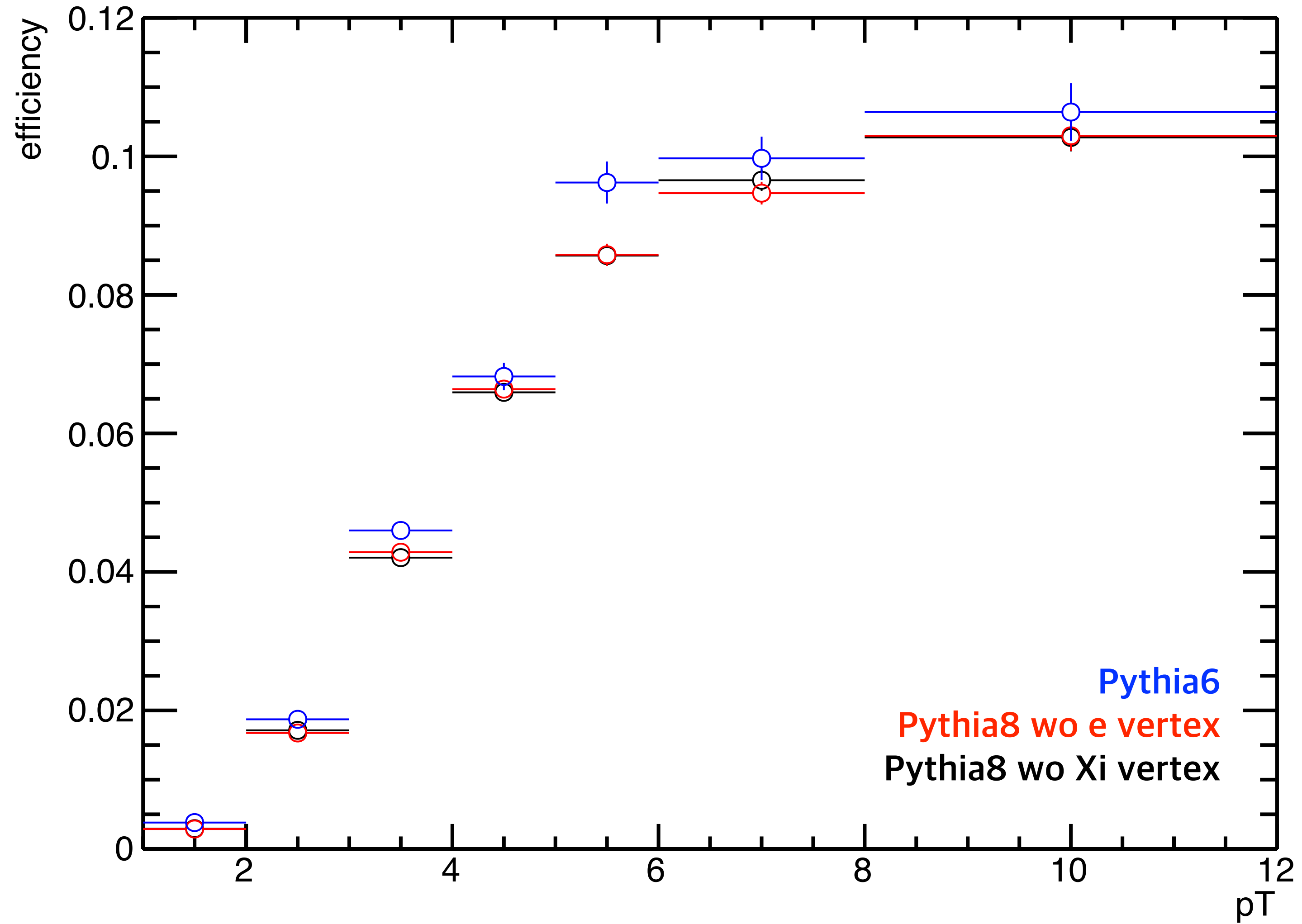 - New : Pythia8_Monash2013_D2Hdedicated.C

    -> simply add Xic as a trigger particle and force the Xic semileptonic decay

  - Old : Pythia6_Perugia2011_HF001.C

    -> option "ele" that enhances pi0 and eta

  - If Pythia6_Perugia2011_HF001.C with "hv0" options, multiplicity distributions are compatible.

  - Reasonable distribution is generated with Pythia8

    ➡ **Efficiency is OK.**

- **Further check**

  - Carify the effect of DCA cuts to efficiency

  - Check efficiency vs tracklet in different pT bin

Pythia8 (NEW)
"ele" option Pythia6 (OLD)
SPD tracklet

Pythia8

MC	
Entries	8.073639e+07
Mean	15.48
Std Dev	8.776

MB multiplicity

"hv0" option

—— Pythia8
—— Pythia6

tracklets

- QA for efficiency

Back up