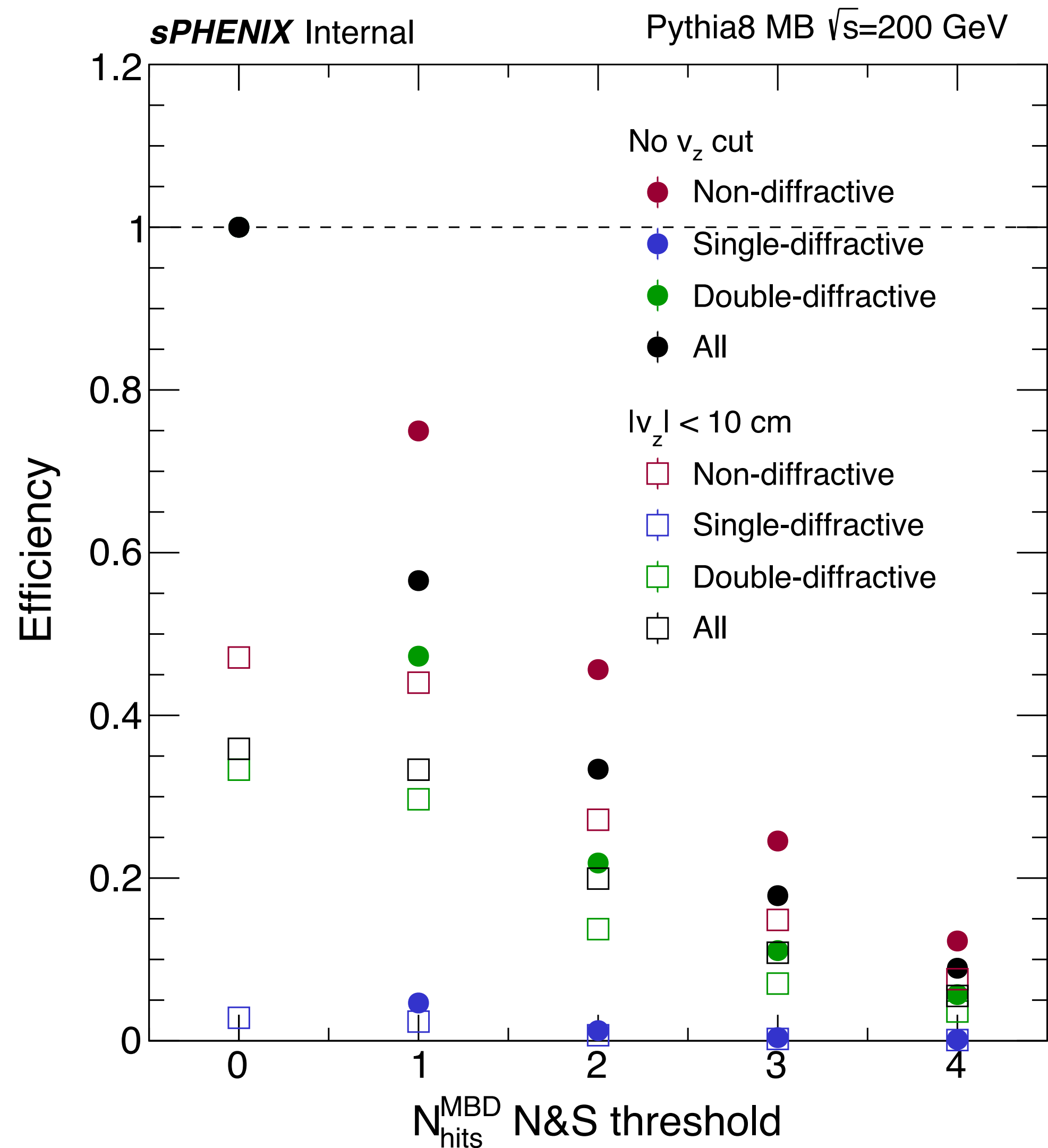


Calo Simulation Pythia8 MB

Jaebeom Park

2024. 04. 26

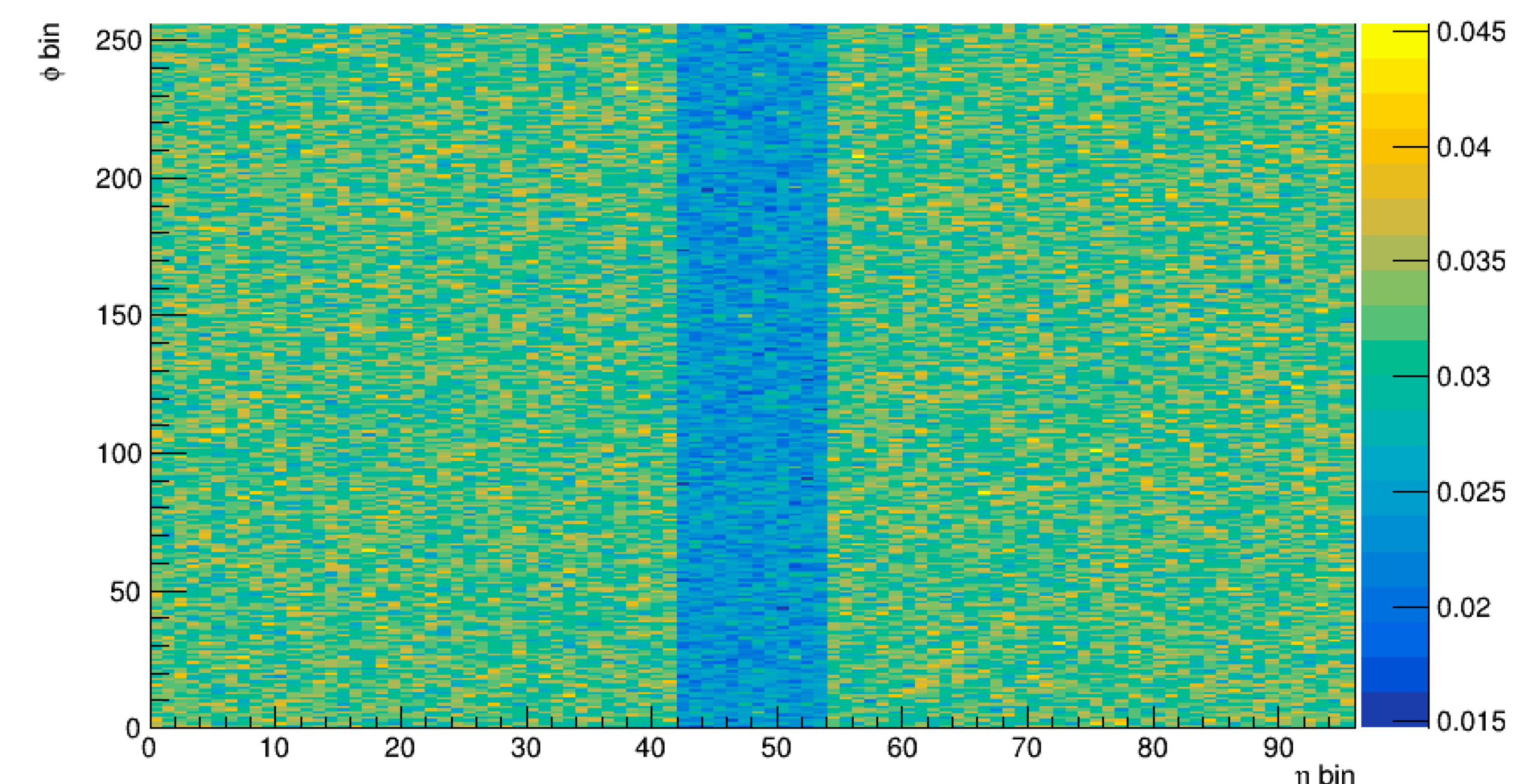
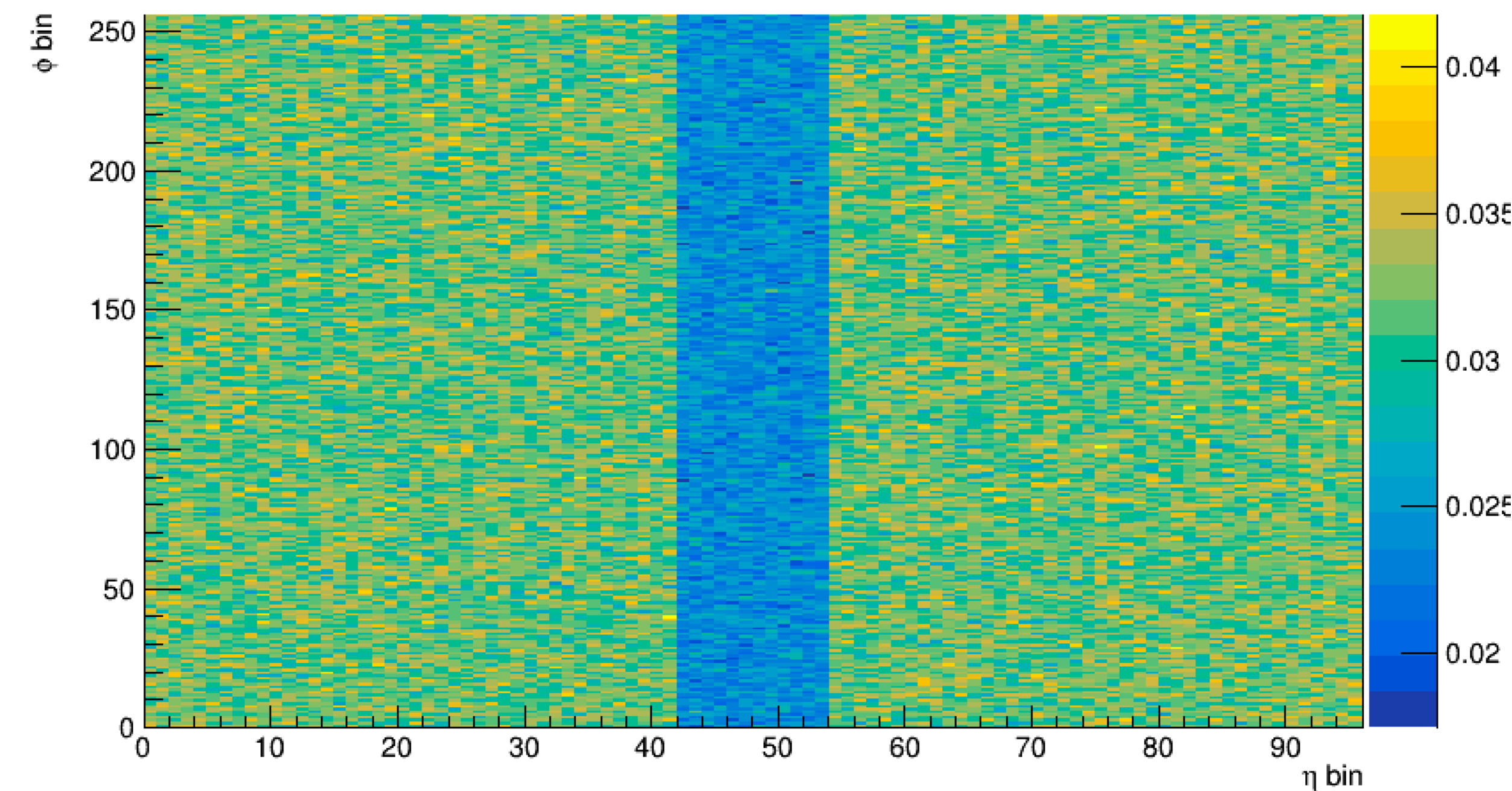




- Without vtx cut : $N_{\text{hits}} \geq 1 \sim 56\%$, $N_{\text{hits}} \geq 2 \sim 33\%$
- $N_{\text{hits}} \geq 1$ vs $N_{\text{hits}} \geq 2$
 - : $\sim 40\%$ drop of eff (= 70% larger rejection factor)
- Huge rejection for single-diffractive events

Nhits N&S ≥ 1

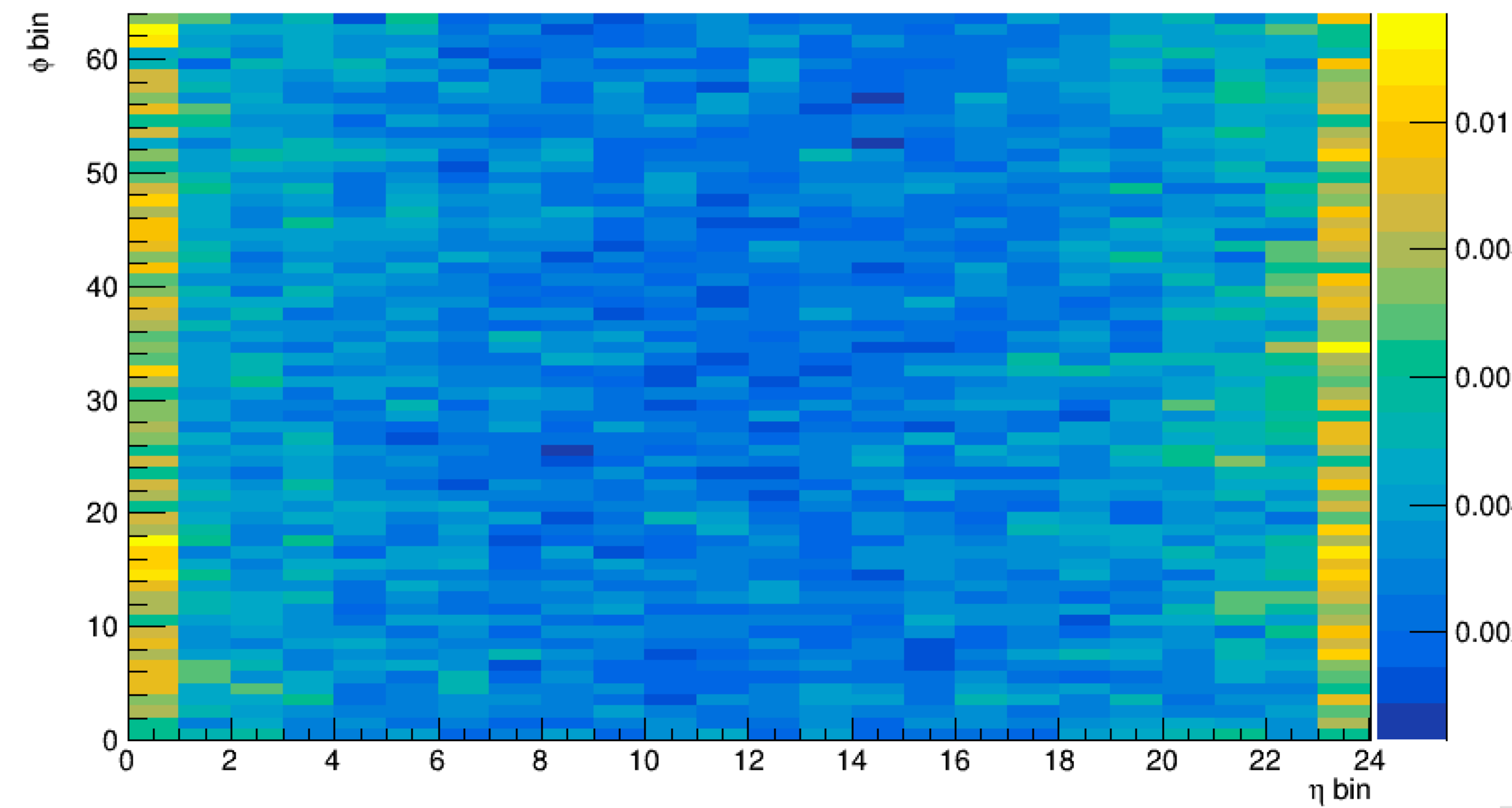
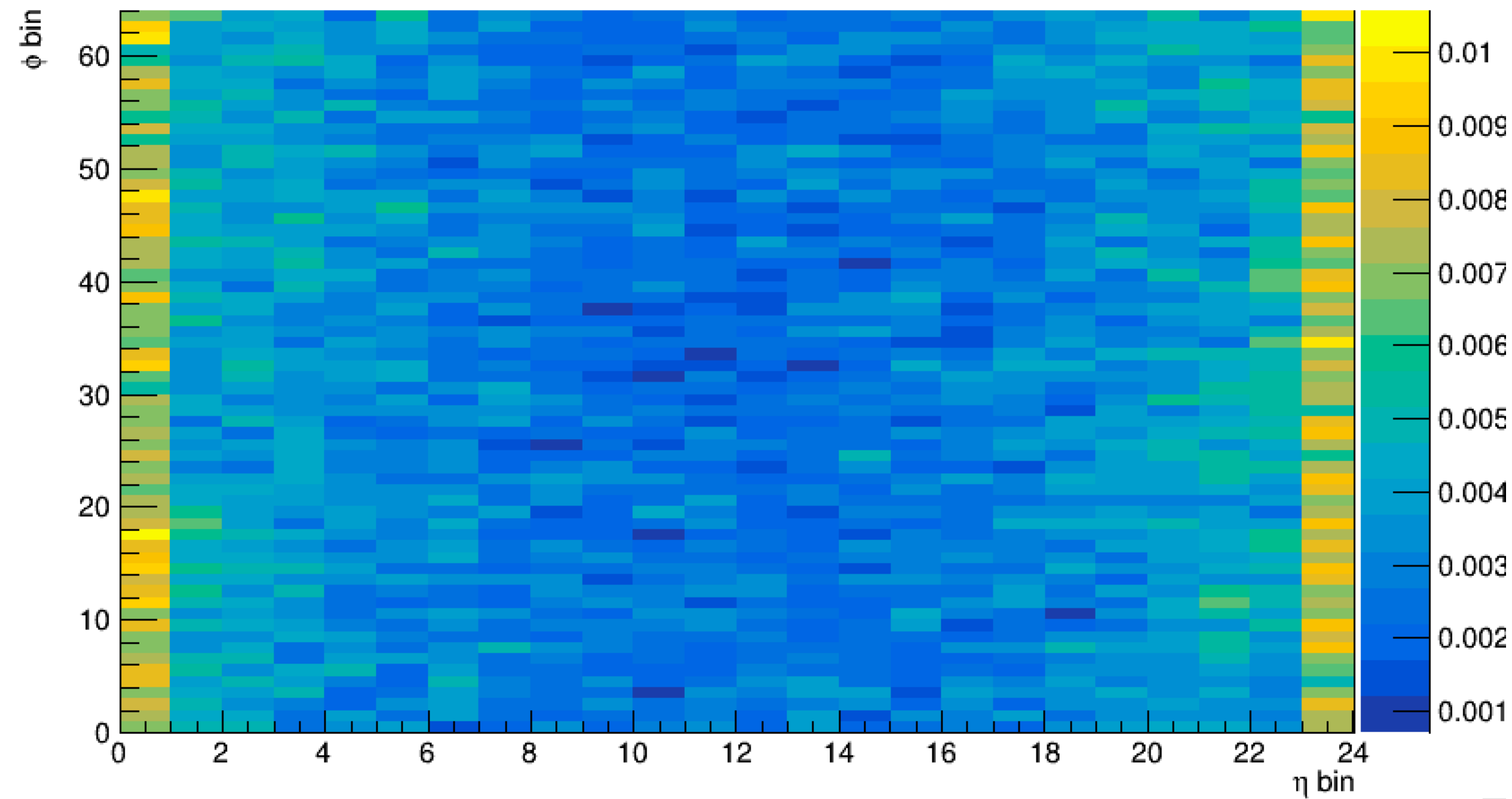
Nhits N&S ≥ 2



Used NoZS DST from Run11 pp — Energy cut per tower > 130 MeV

Nhits N&S ≥ 1

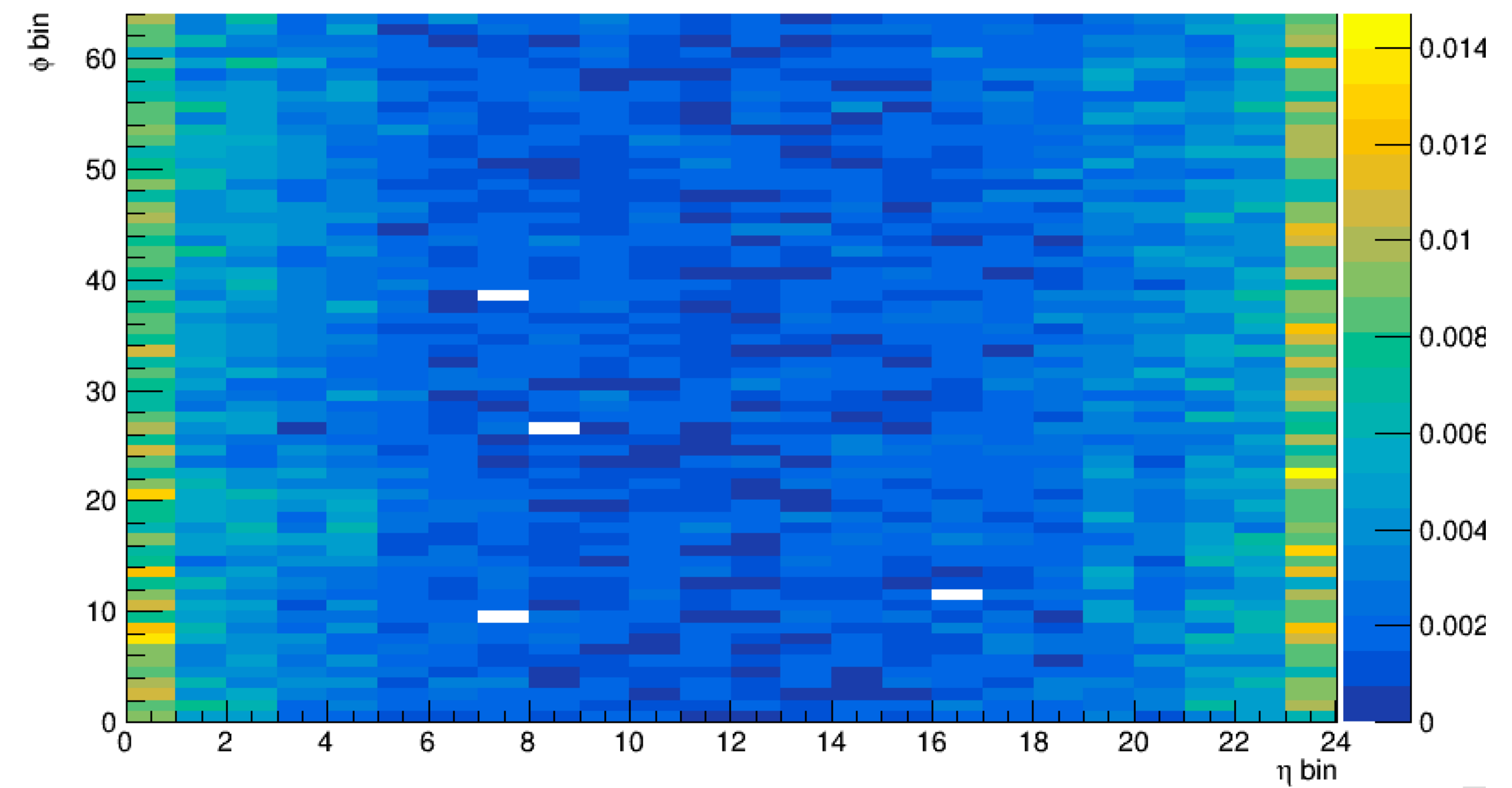
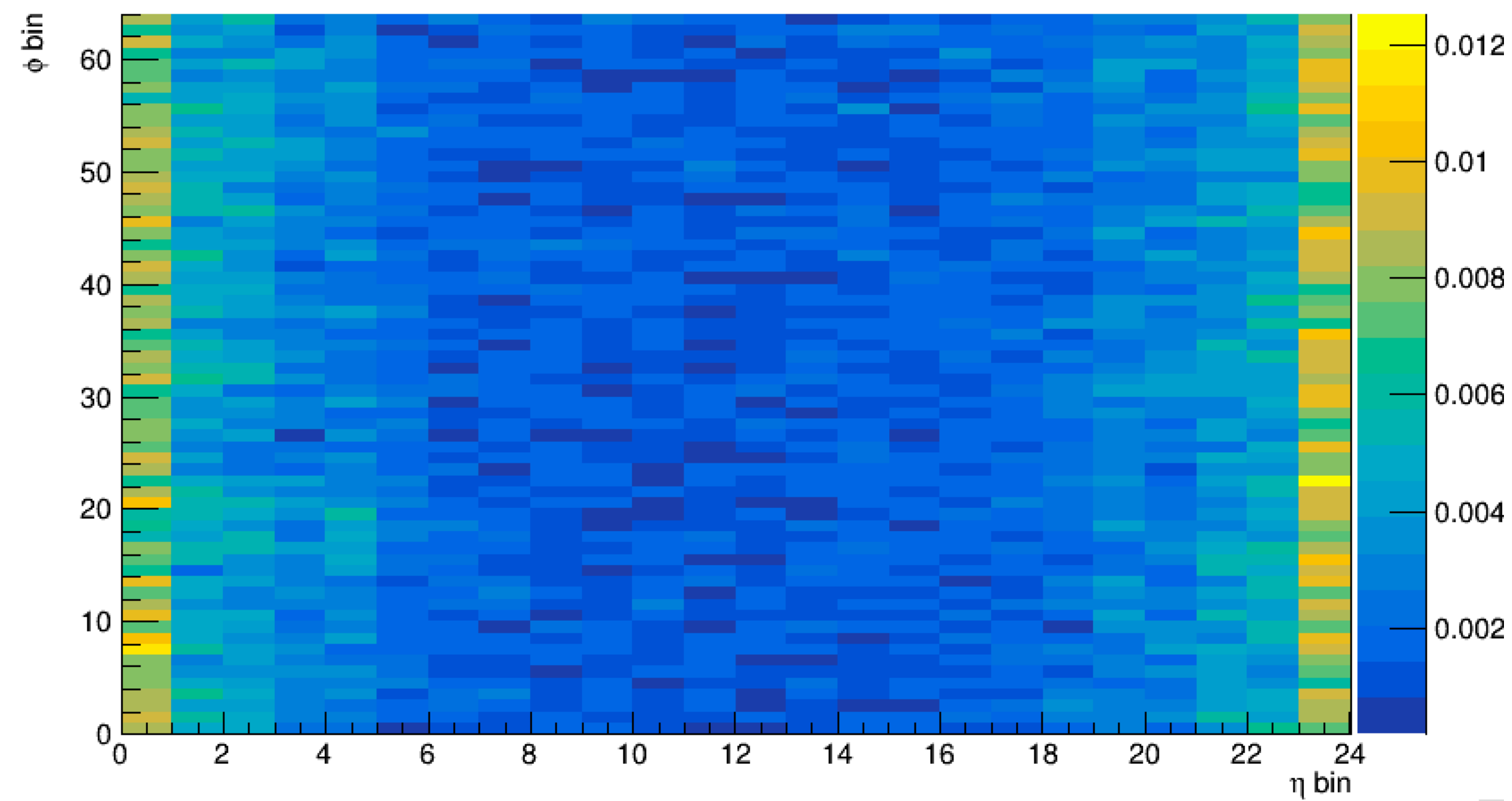
Nhits N&S ≥ 2



Used NoZS DST from Run11 pp — Energy cut per tower > 10 MeV

Nhits N&S ≥ 1

Nhits N&S ≥ 2



Used NoZS DST from Run11 pp — Energy cut per tower > 50 MeV

Back-up