

# Details of Dataset

Data Set: Pre-production Au + Au at  $\sqrt{s_{NN}} = 19.6$  GeV

Run ID : 20057003– 20093036(1127 runs)

/star/data05/pwg\_tasks/picoDst\_Run19\_19p6\_Calib/

Data Size : (Total MB events ~8.6 Million )

For Run By Run QA:

Event-level cuts:

$$|V_r| \leq 2 \text{ cm}$$

$$|V_z| \leq 200 \text{ cm}$$

$$|V_z - V_{pd}V_z| \leq 3 \text{ cm}$$

Track-level cuts:

$$p_T > 0.15 \text{ GeV}$$

$$|\eta| < 1$$

$$|nHitFit| > 15$$

$$nHitFitRatio > 0.52$$

$$|nHitsDedx| > 15$$

$$gDca < 3 \text{ cm}$$

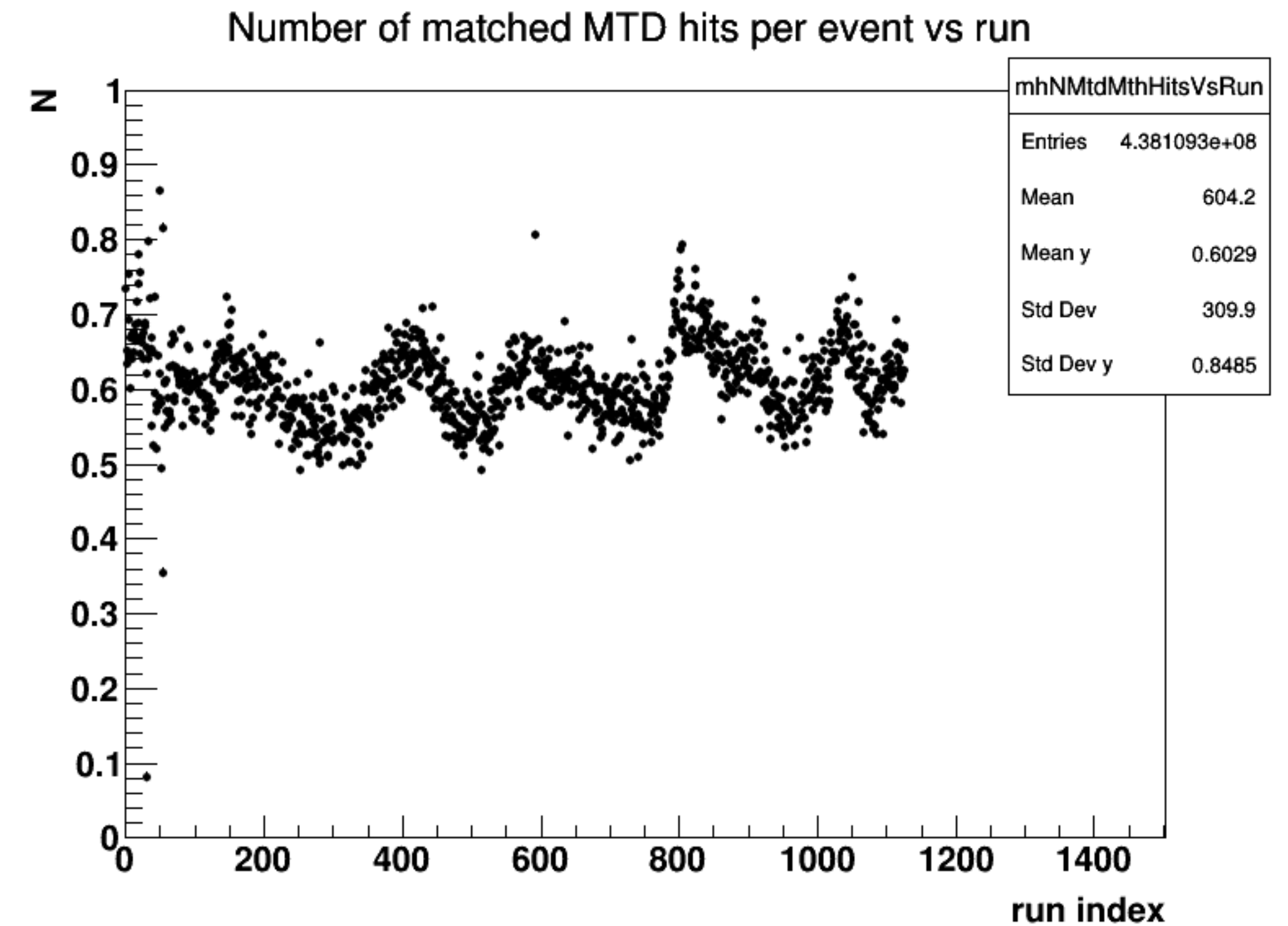
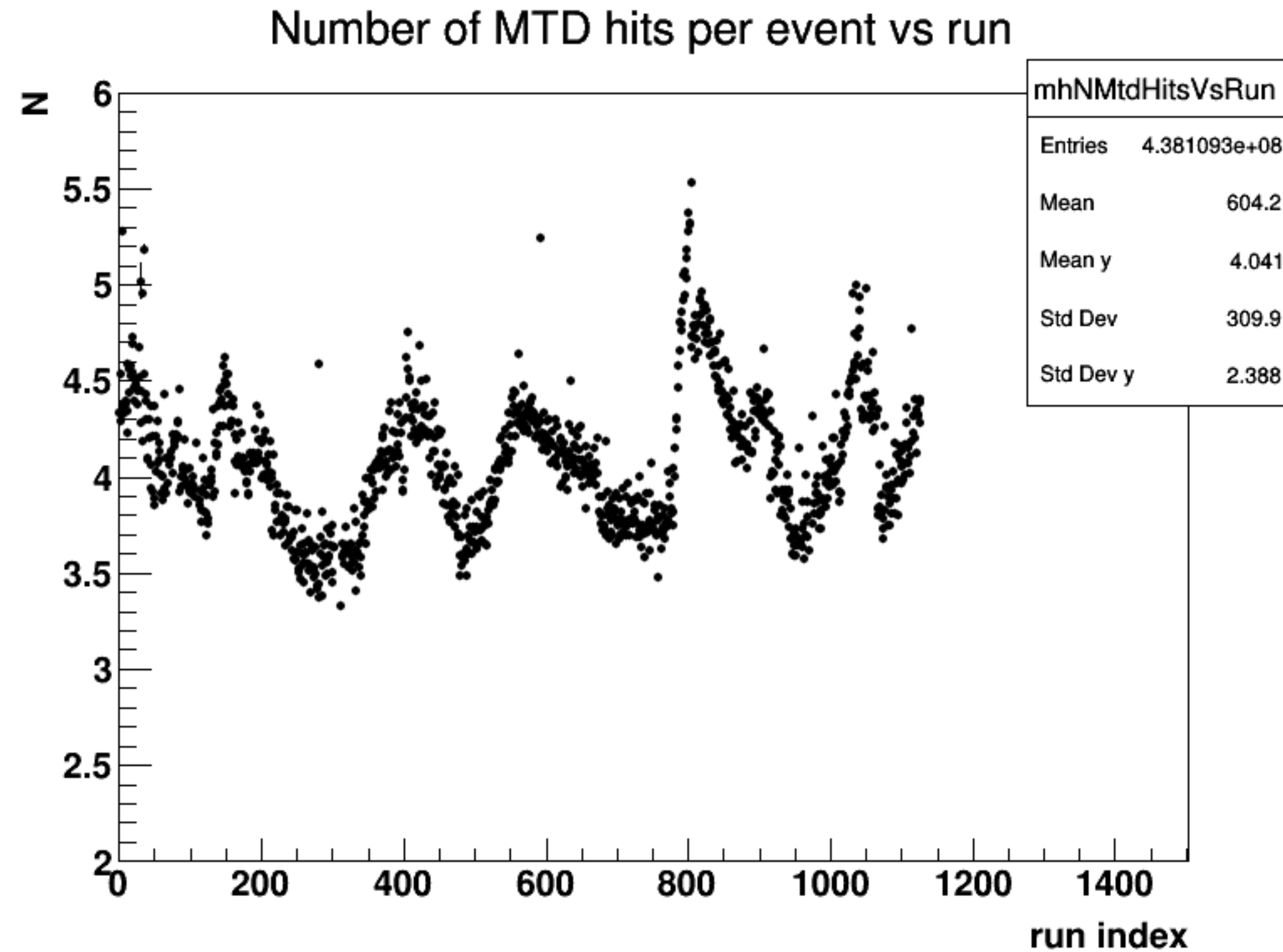
Link to other's run by run study for this dataset:

[https://drupal.star.bnl.gov/STAR/system/files/19p6\\_QA\\_update\\_2\\_0.pdf](https://drupal.star.bnl.gov/STAR/system/files/19p6_QA_update_2_0.pdf)

[https://drupal.star.bnl.gov/STAR/system/files/19p6GeV\\_etof\\_QA.pdf](https://drupal.star.bnl.gov/STAR/system/files/19p6GeV_etof_QA.pdf)

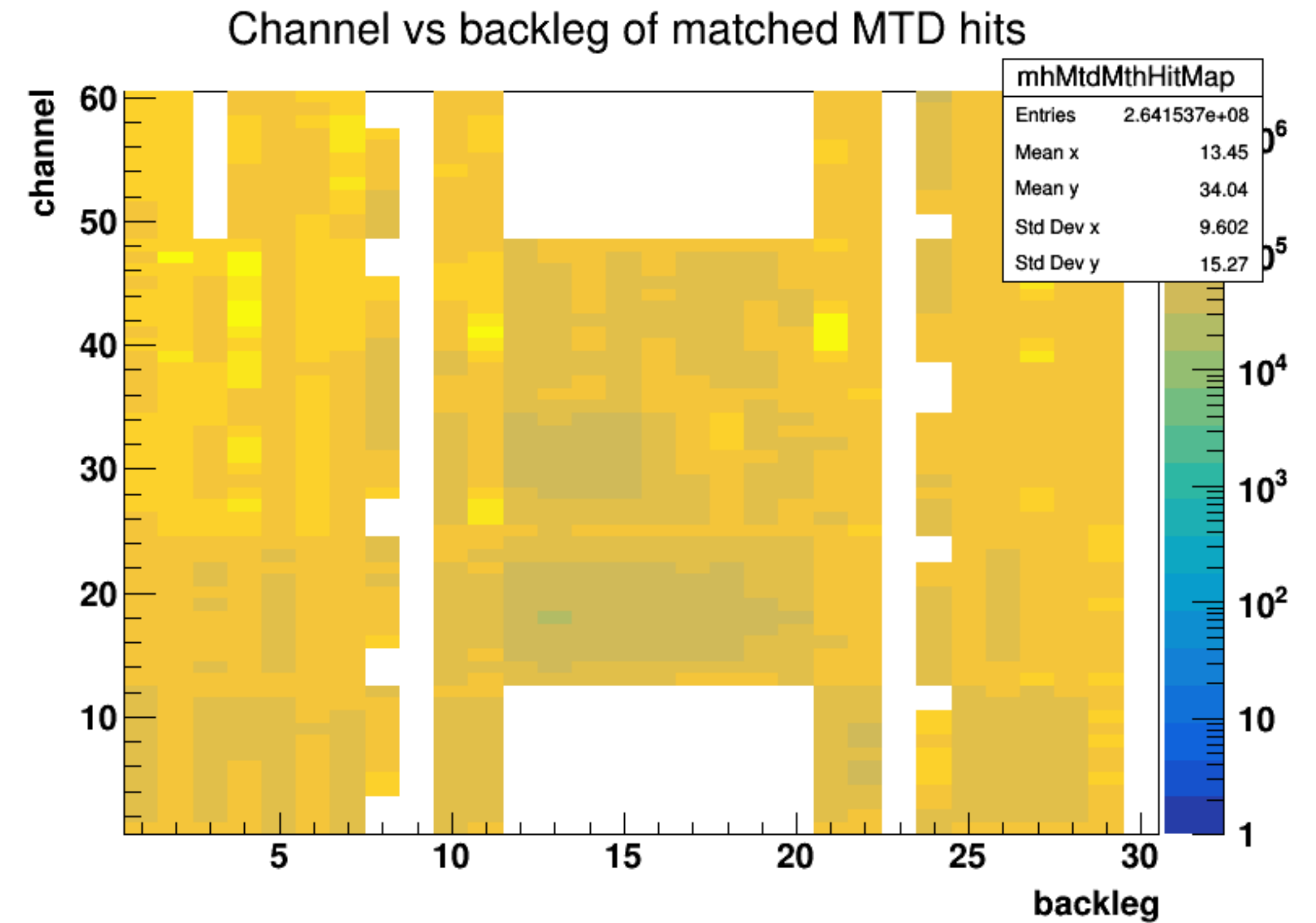
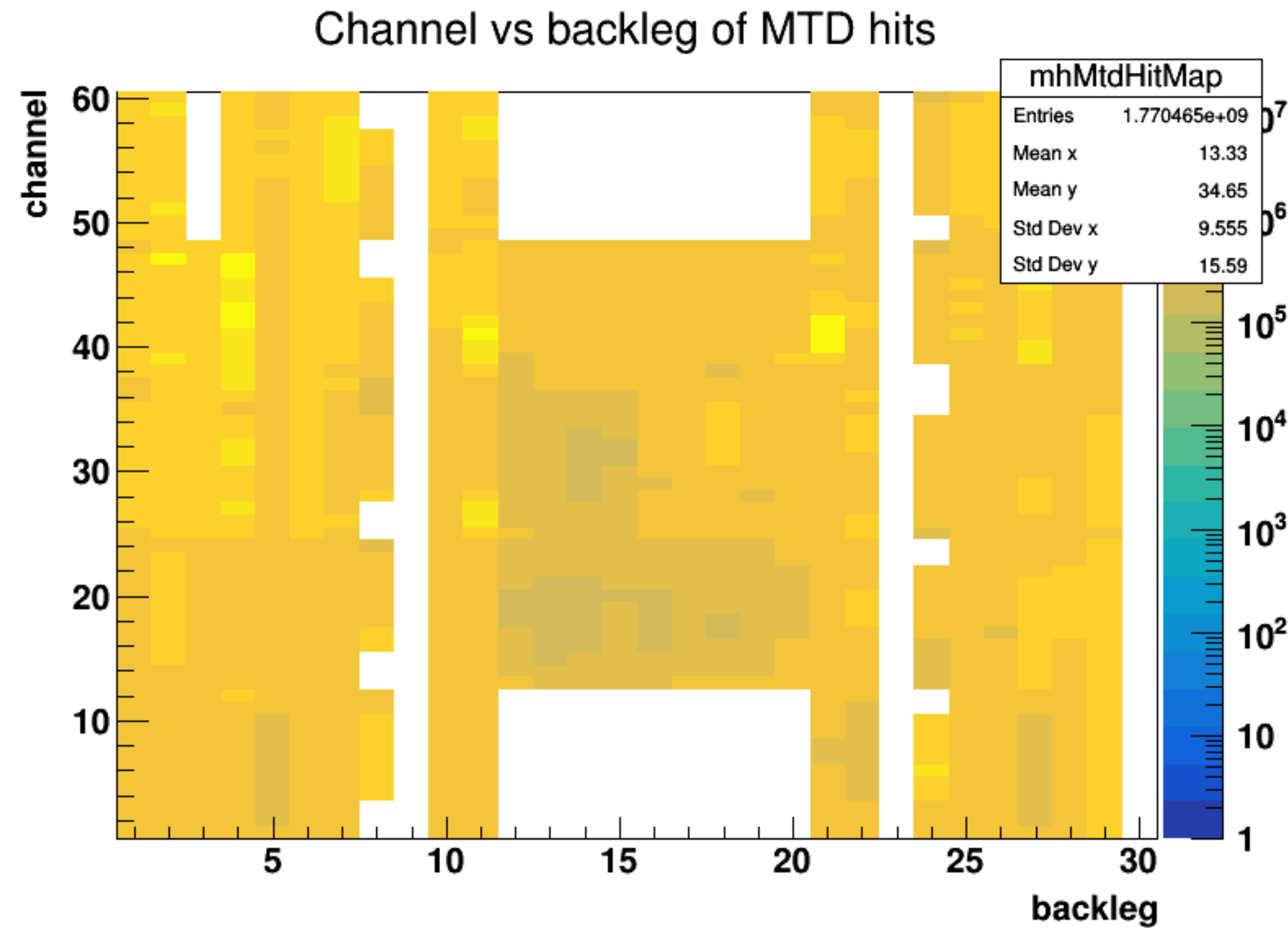
[https://drupal.star.bnl.gov/STAR/system/files/19p6\\_DCA\\_runs\\_0.pdf](https://drupal.star.bnl.gov/STAR/system/files/19p6_DCA_runs_0.pdf)

# Track QA - MTD



- left: # of MTD hits vs. RunId
- right: # of MTD hits matched with TPC tracks vs. RunId

# Track QA - MTD



channel:  $(\text{Module}-1) \times 12 + \text{Strip}$

- left:  $(\text{Module}-1) \times 12 + \text{Strip}$  vs. Backleg for all MTD hits
- right:  $(\text{Module}-1) \times 12 + \text{Strip}$  vs. Backleg for MTD hits matched with TPC tracks