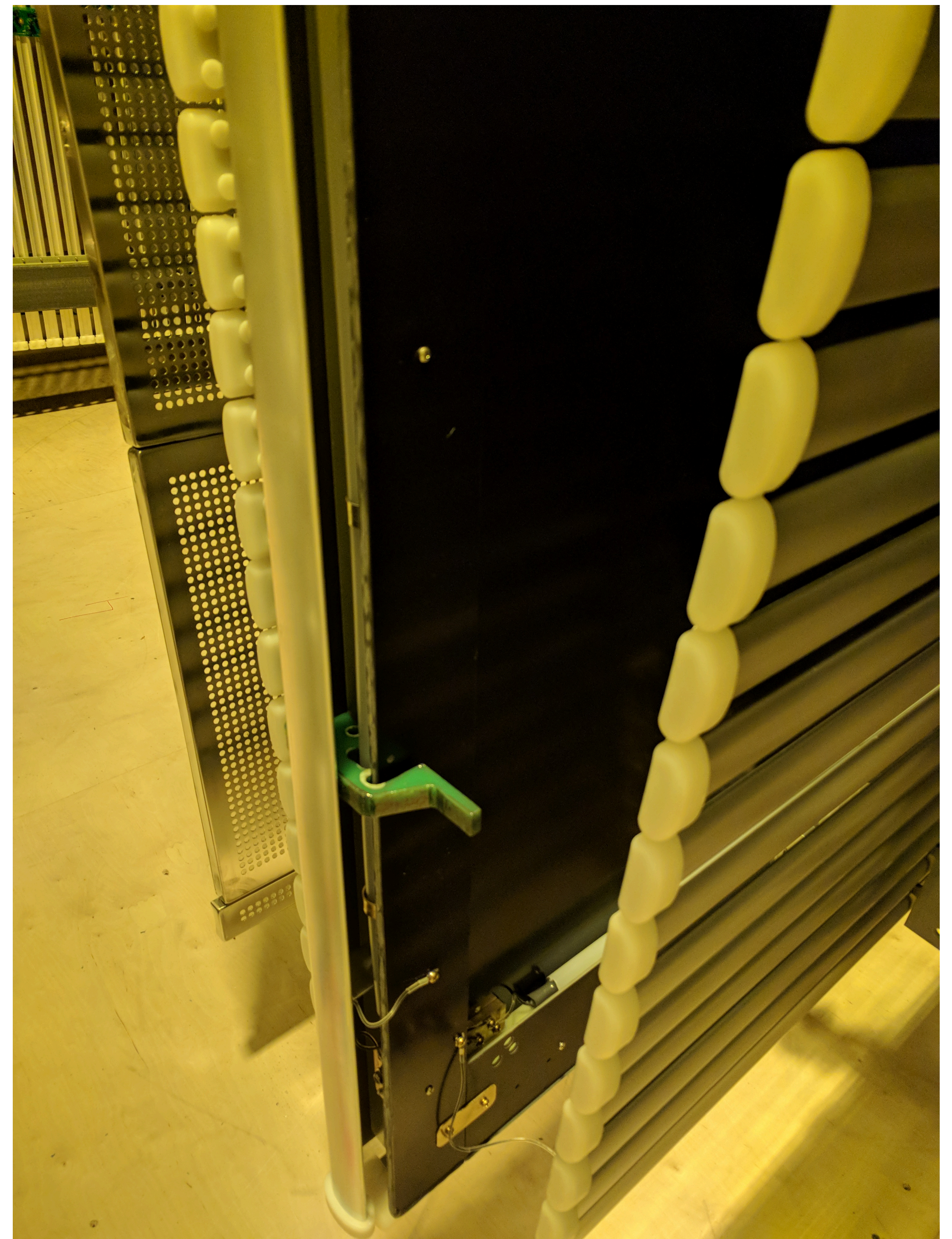
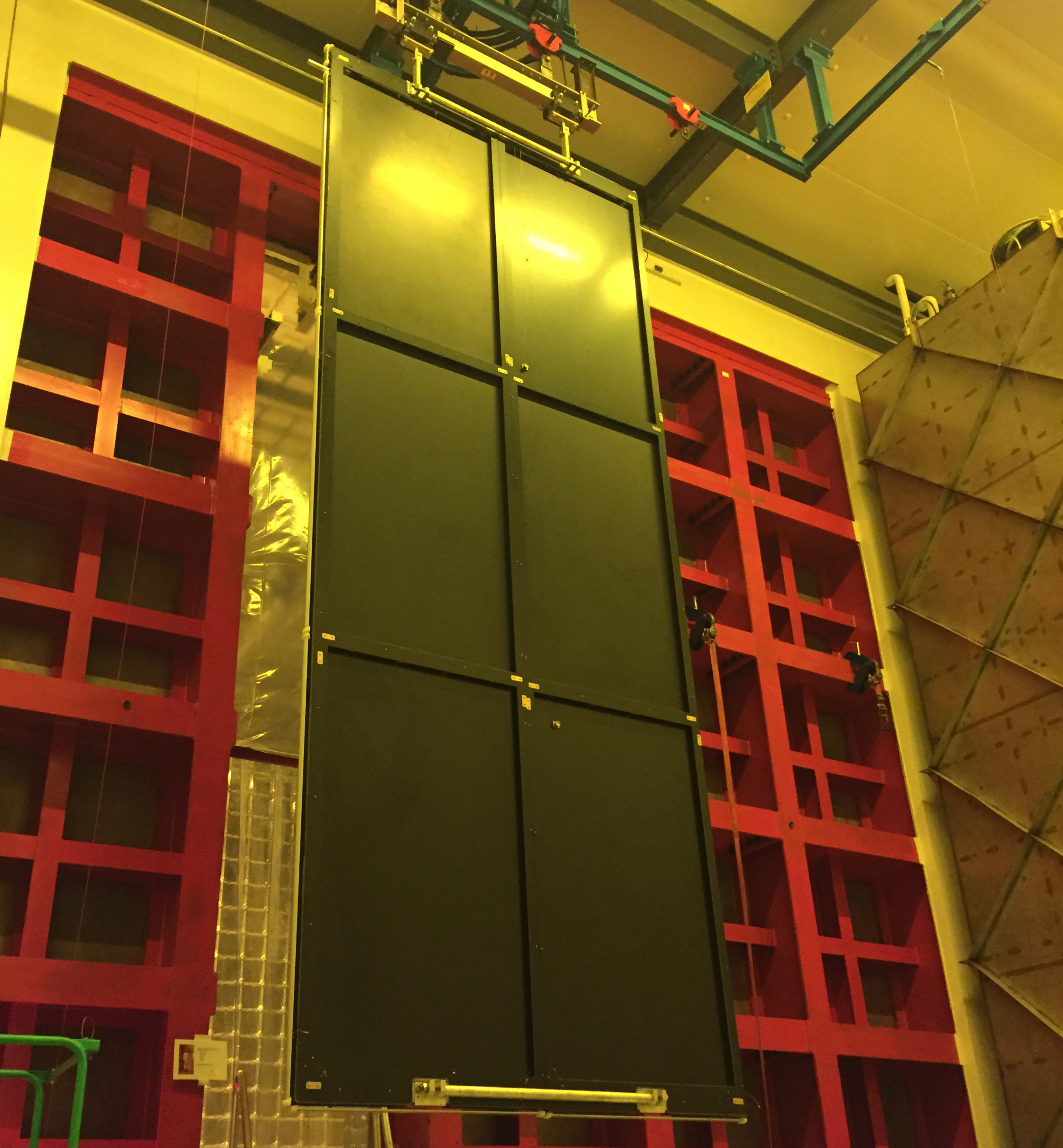


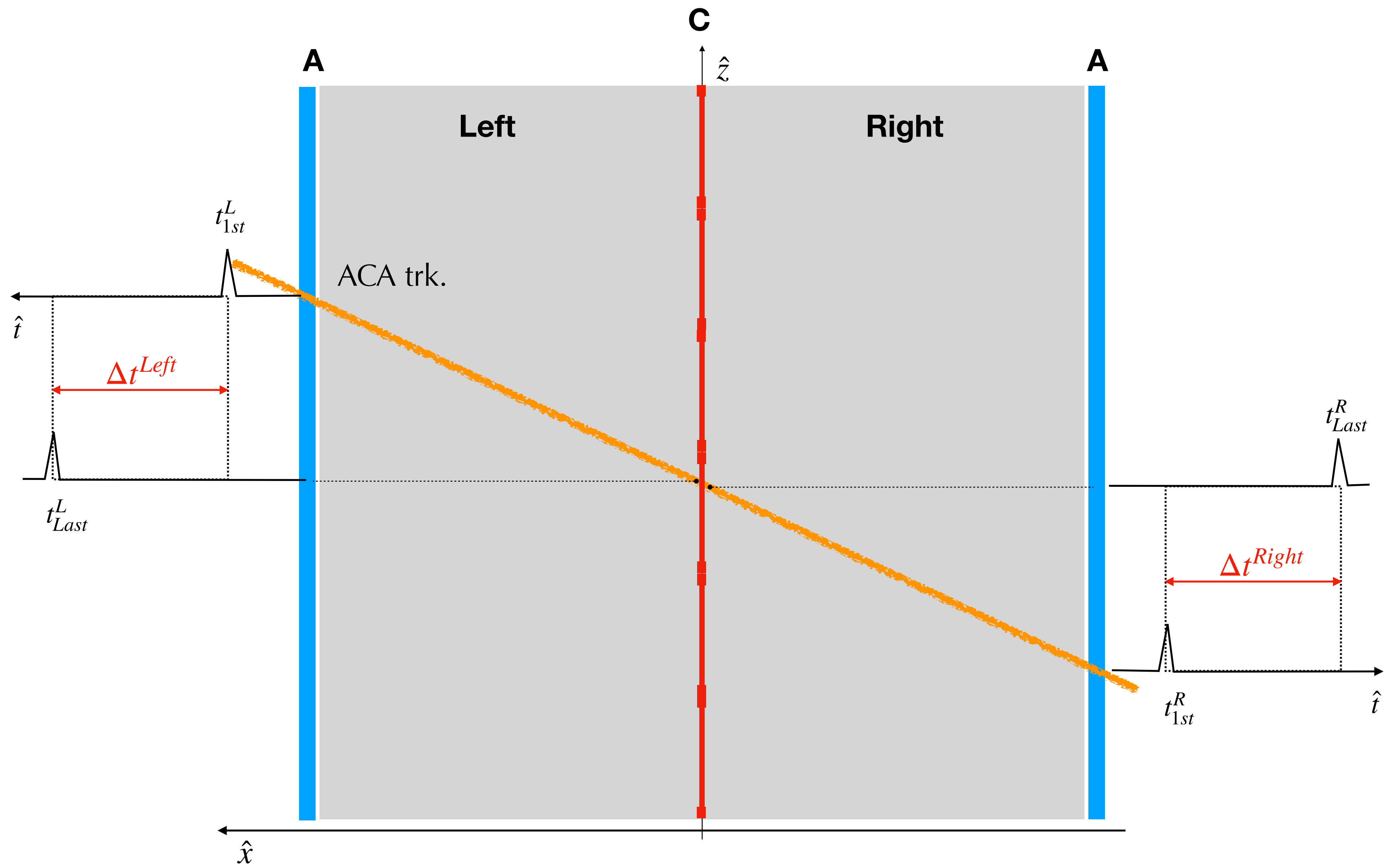
CPAs planarity vs shift/rotation

Main Data Analysis: Ajib Paudel

Contributions: Richie Diurba (MNU), Mike Mooney (CSU), Tingjun Yang (FNAL)

Report: F. Cavanna



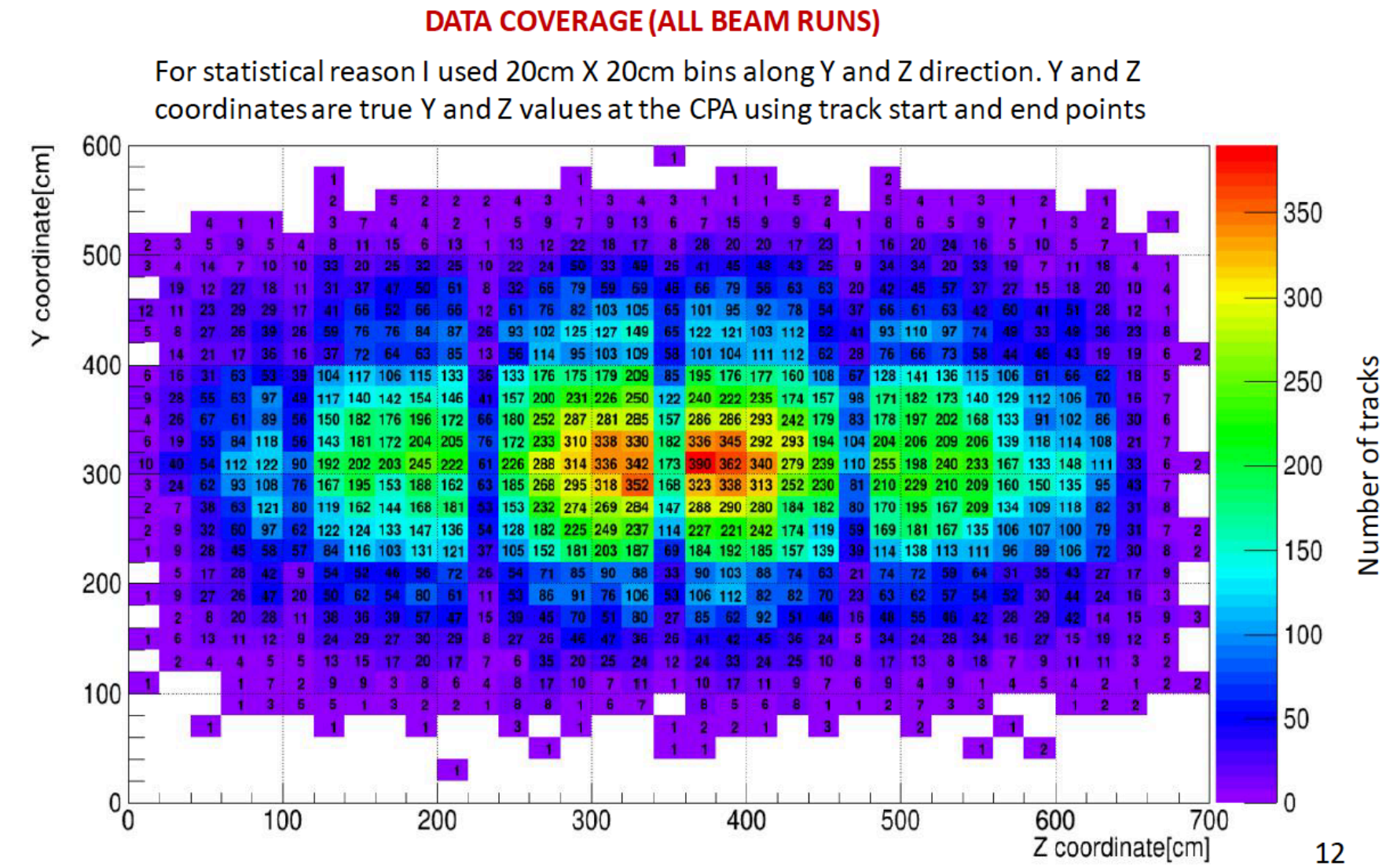


$$\Delta t^L = \Delta t^R$$

$$\Delta t = (t_{Last} - t_{1st})$$

for CPA at the center of TPC ($x=0$) and parallel to APAs

7M tracks sample → 60k ACA tracks (crossing and distributed over the CPA plane)

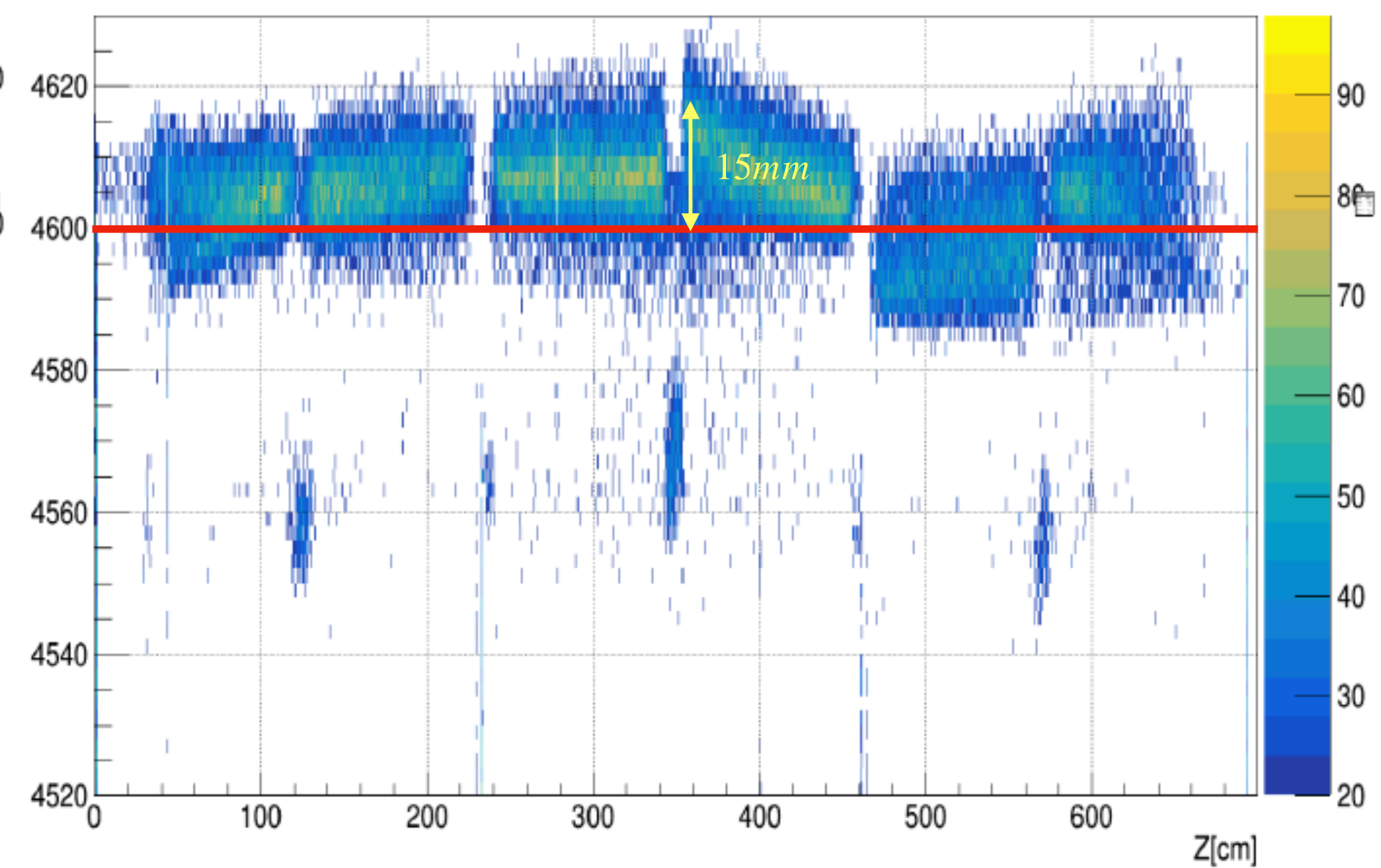
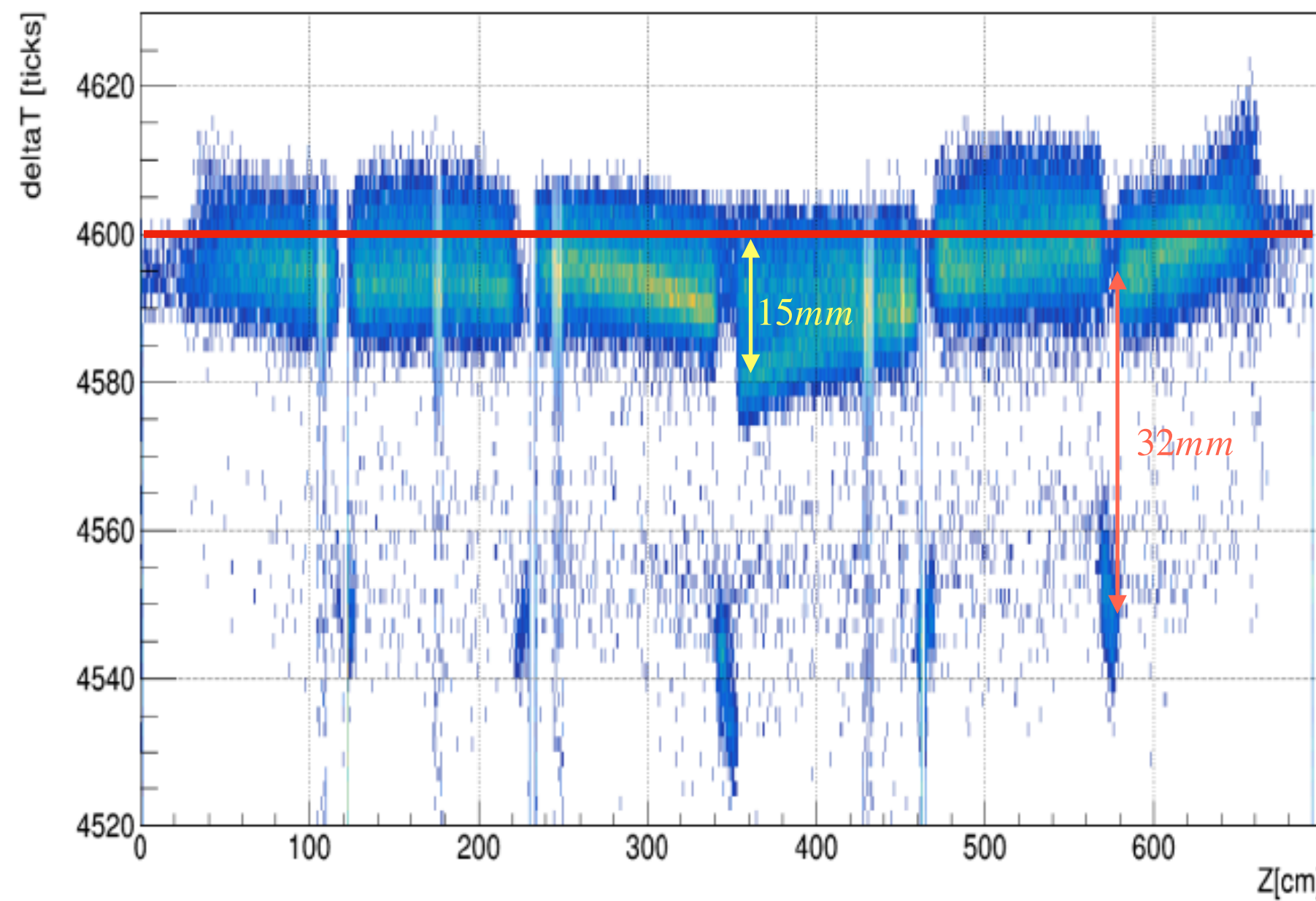


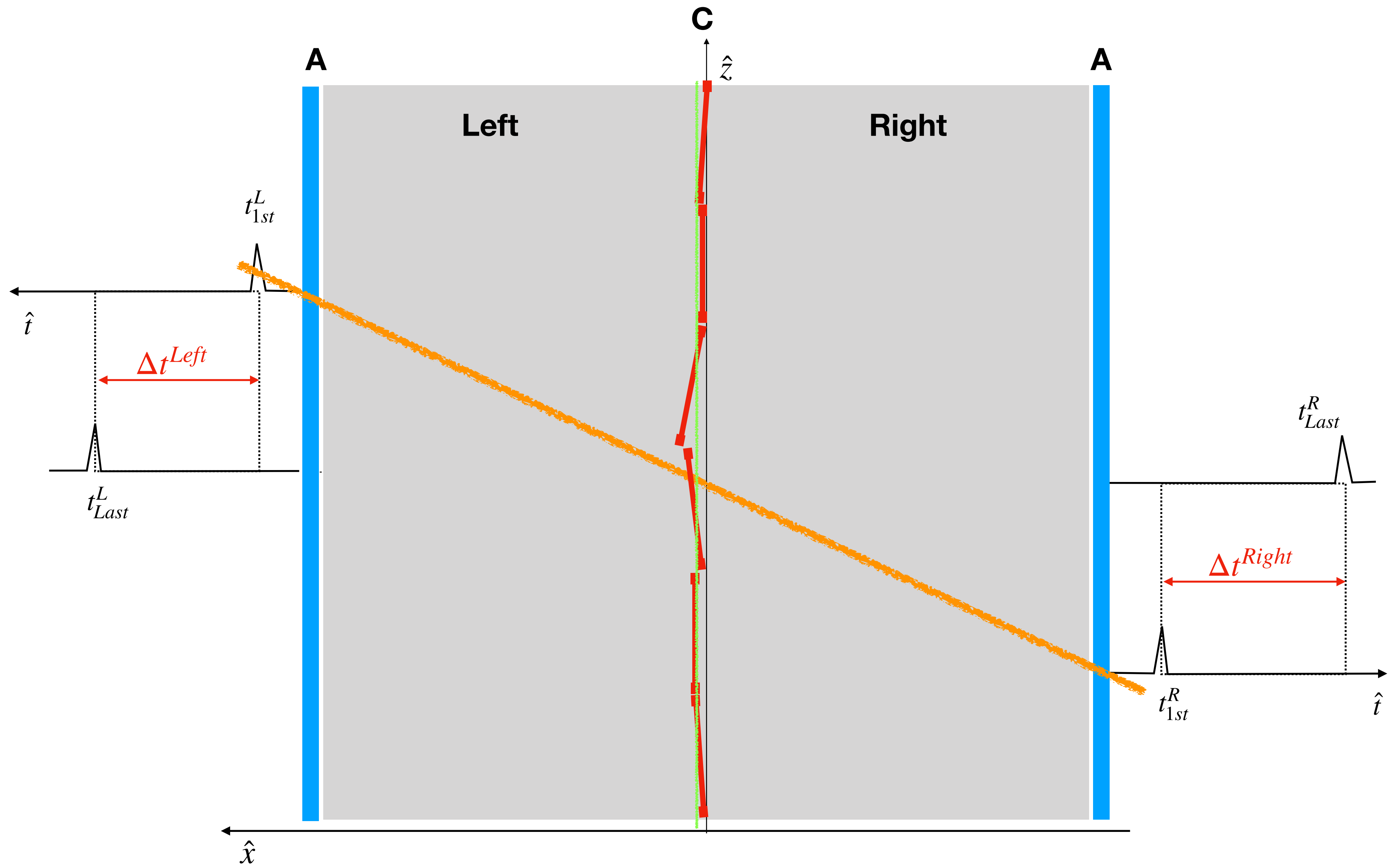
**Study made by
Ajib Paudel (KSU)**

(+ M. Mooney - SC Grp
T. Yang - DRA Grp, ..)

Δt^L vs \hat{z}

Δt^R vs \hat{z}



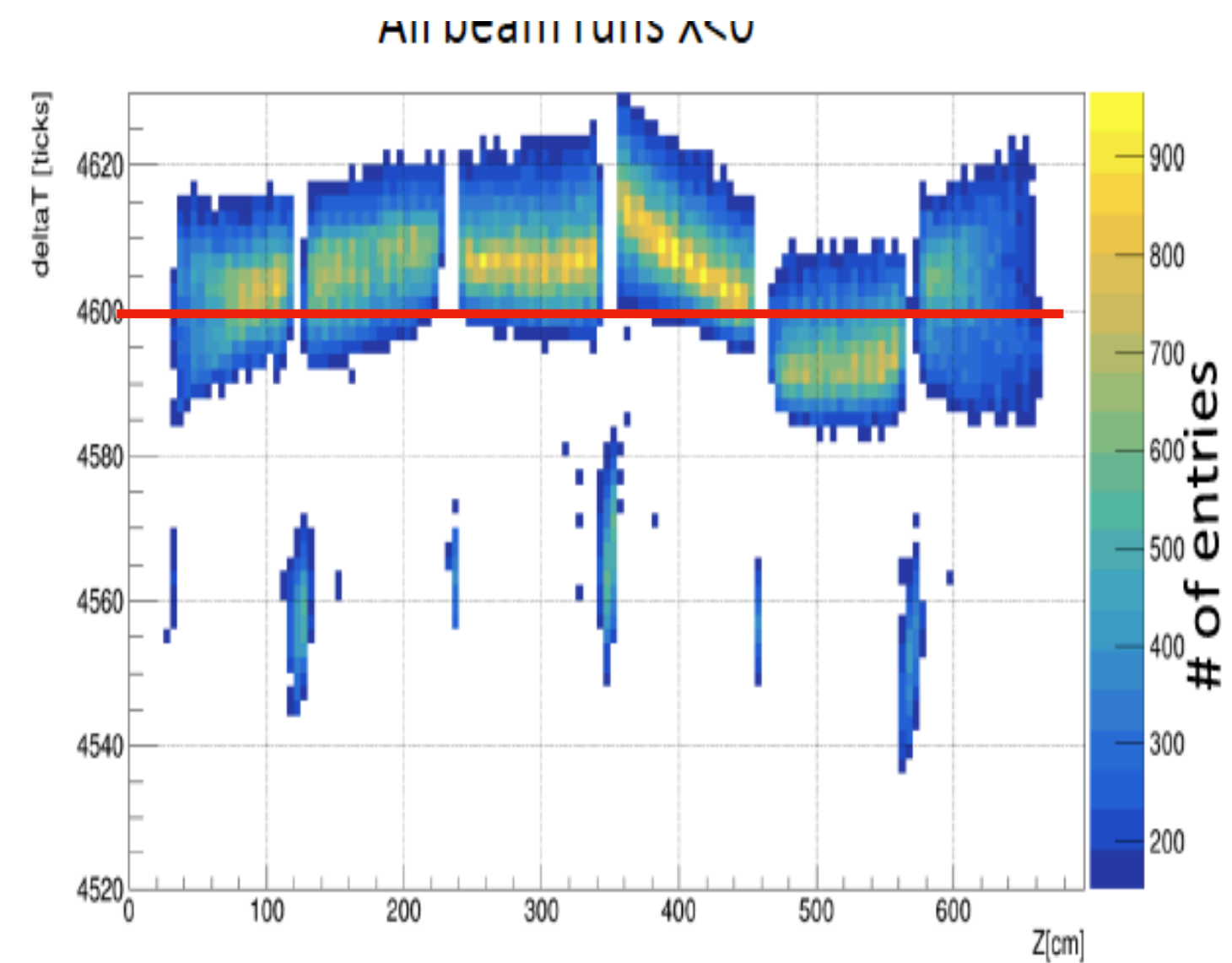


$$\Delta t^L \neq \Delta t^R$$

for CPAs tilted and/or shifted L/R

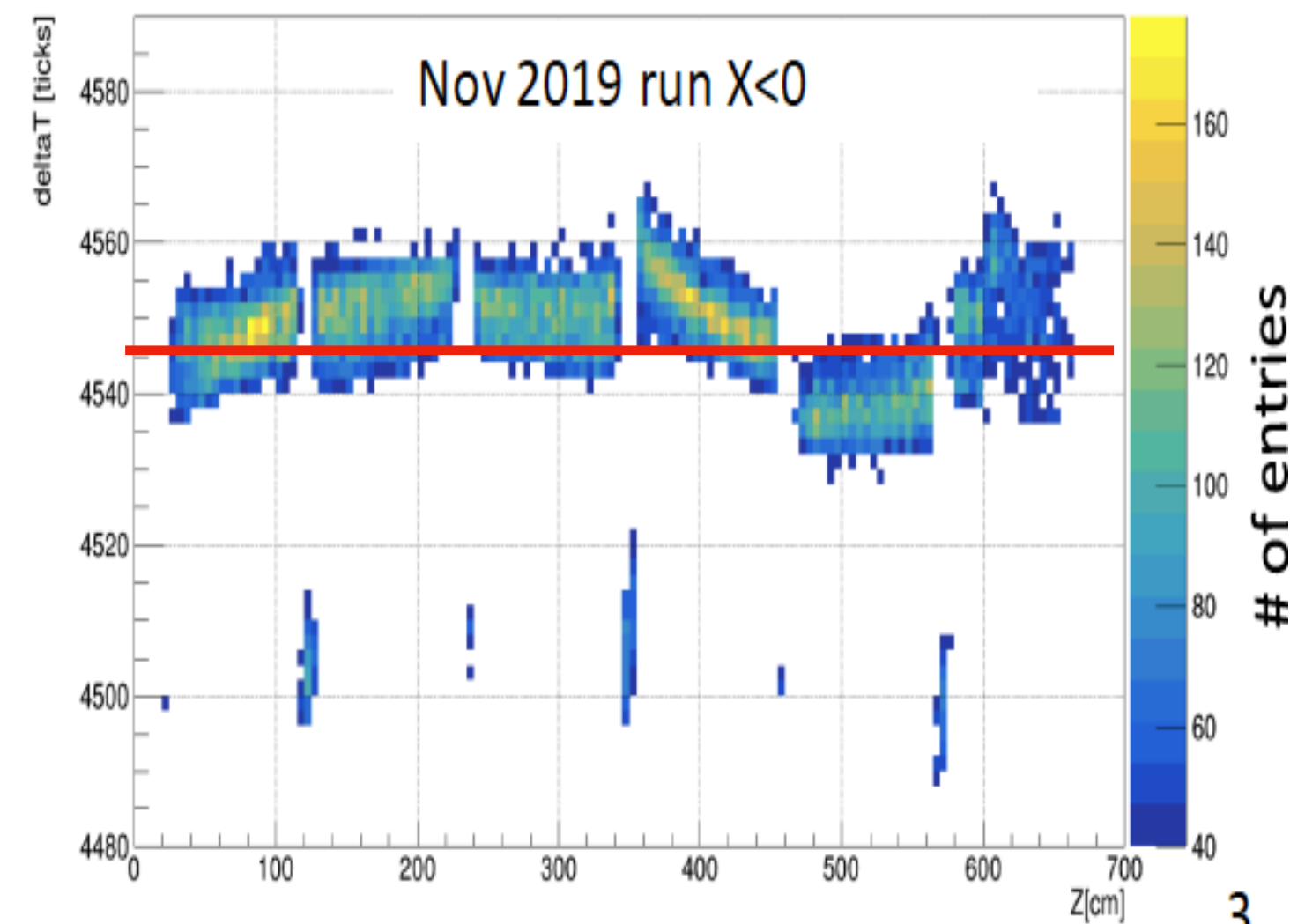
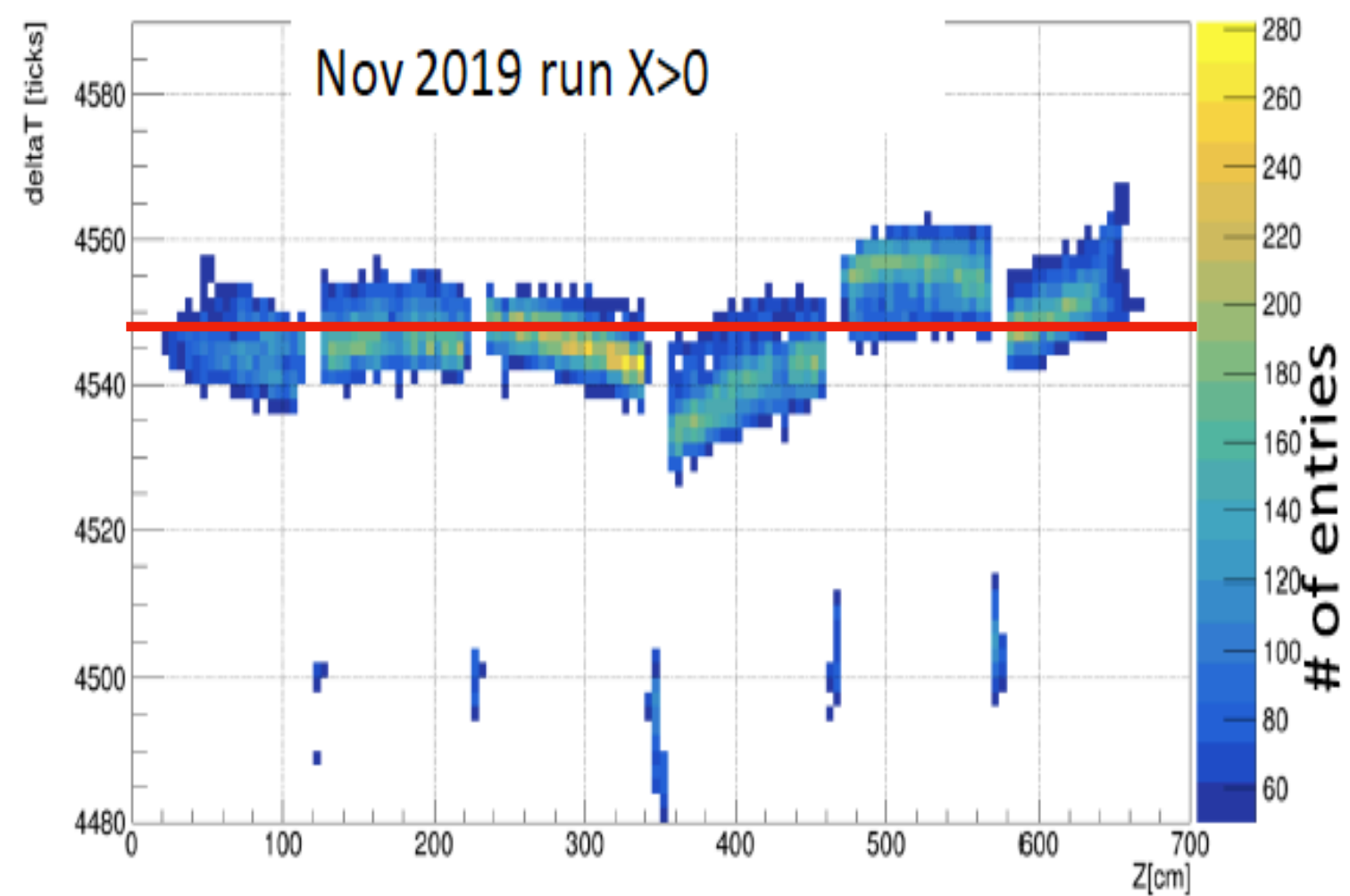
**Oct-Nov 2018
(Beam Run
period)**

Applied Nominal
Efield= 0.4867kV/cm



**Nov-Dec 2019
(CRT Run
period)**

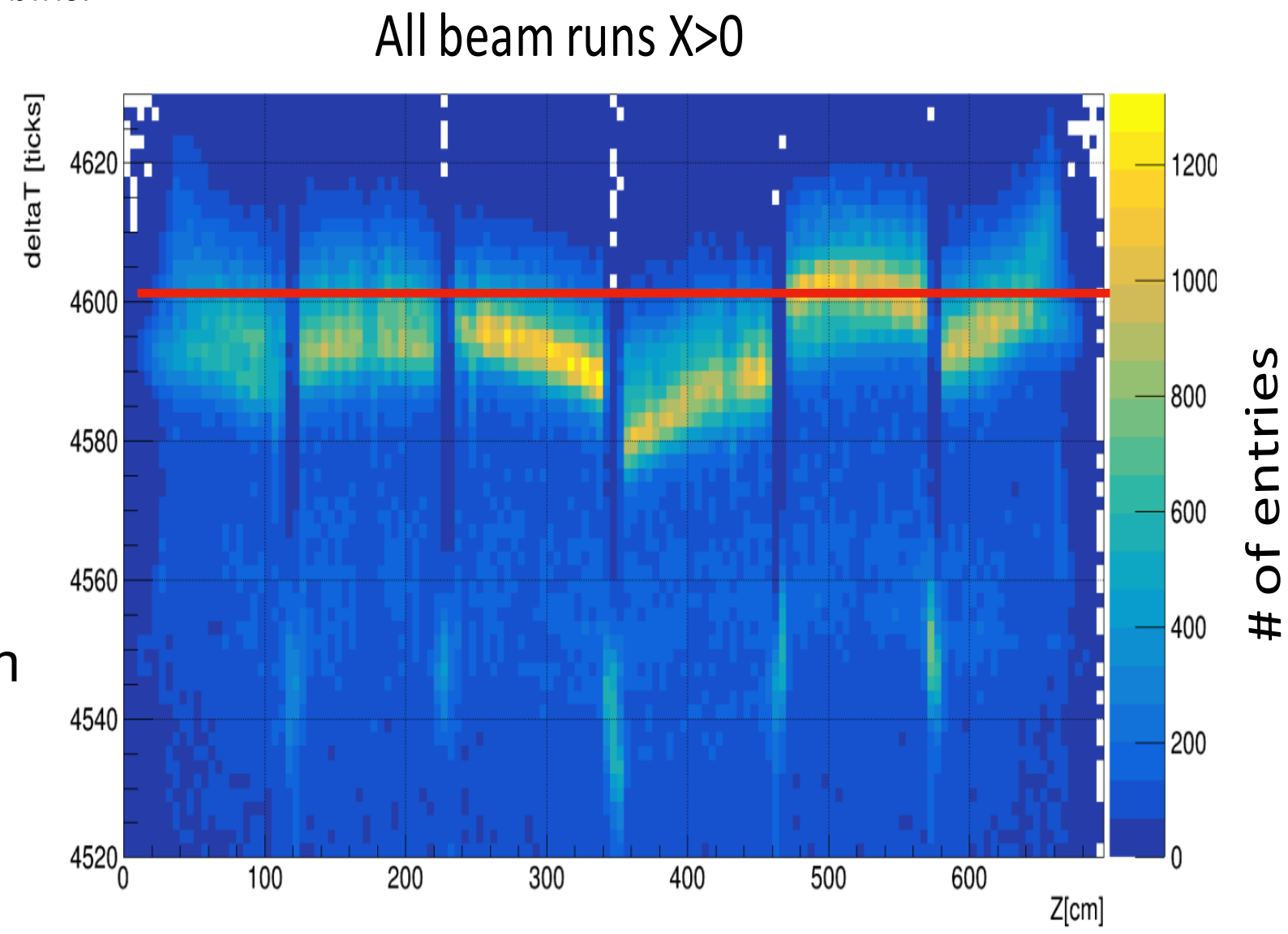
Applied Nominal
Efield= 0.4993kV/cm



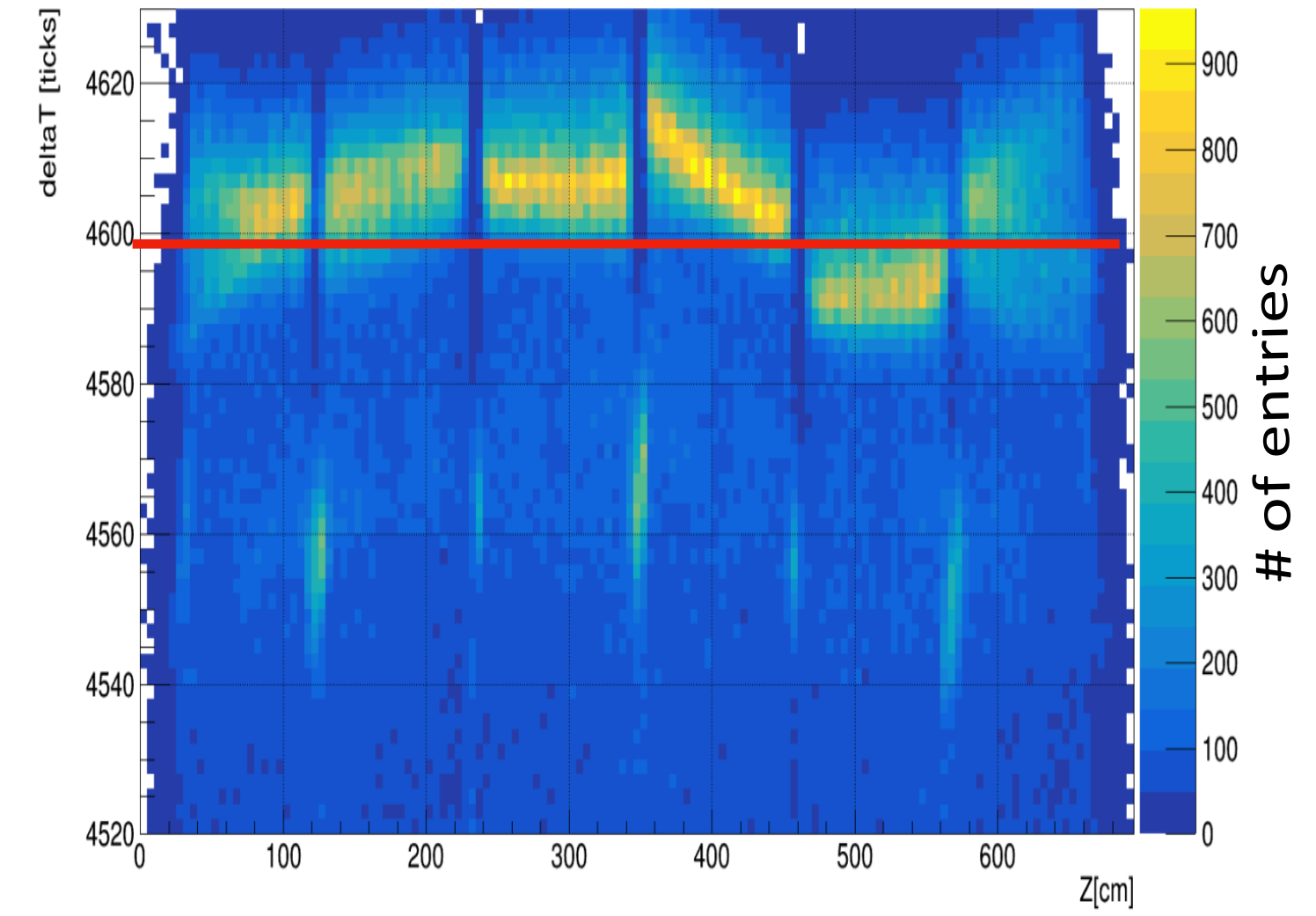
DINS.

**Oct-Nov 2018
(Beam Run
period)**

Applied Nominal
Efield= 0.4867kV/cm

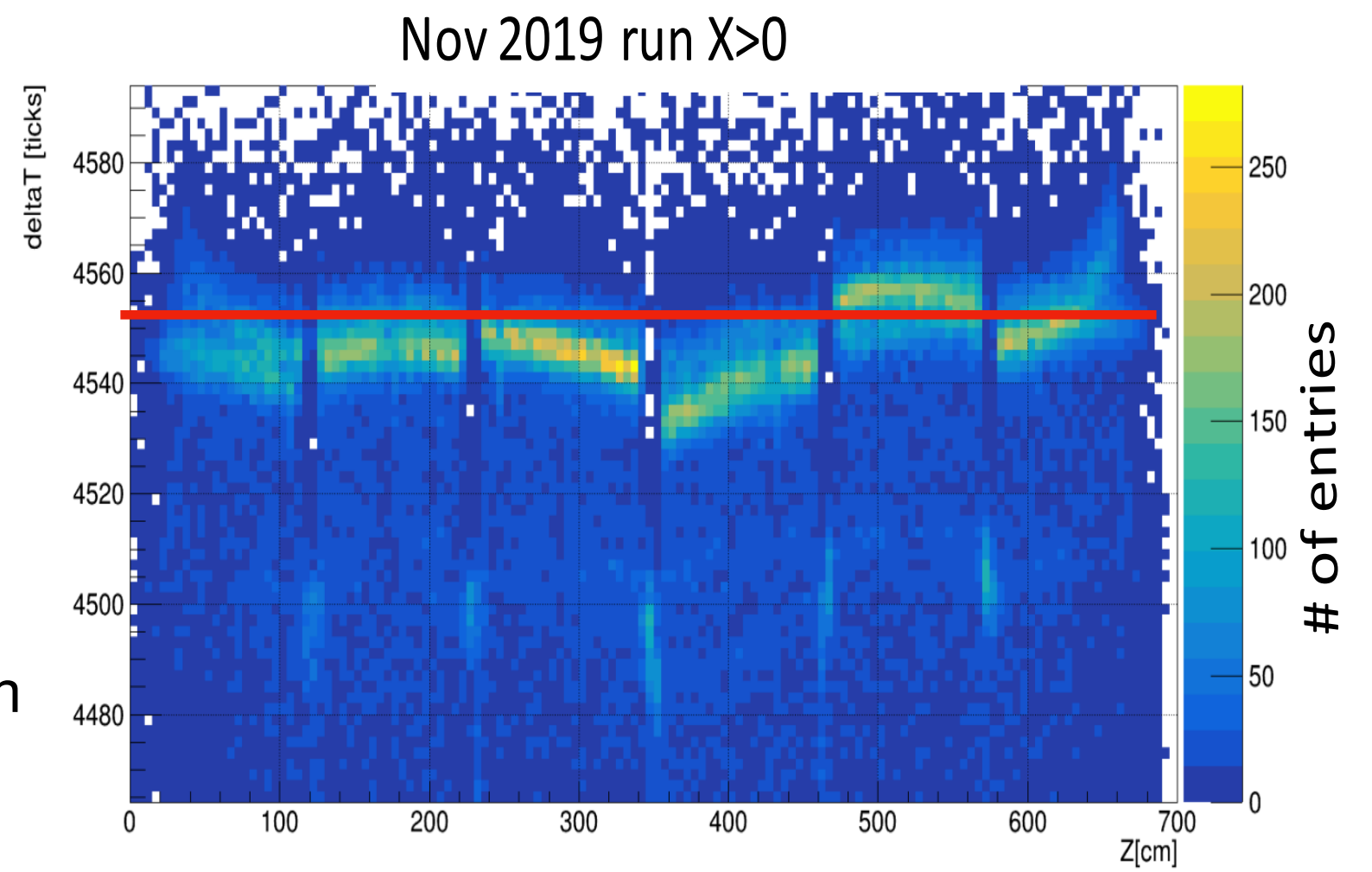


All beam runs X<0



**Nov-Dec 2019
(CRT Run
period)**

Applied Nominal
Efield= 0.4993kV/cm



Nov 2019 run X<0

