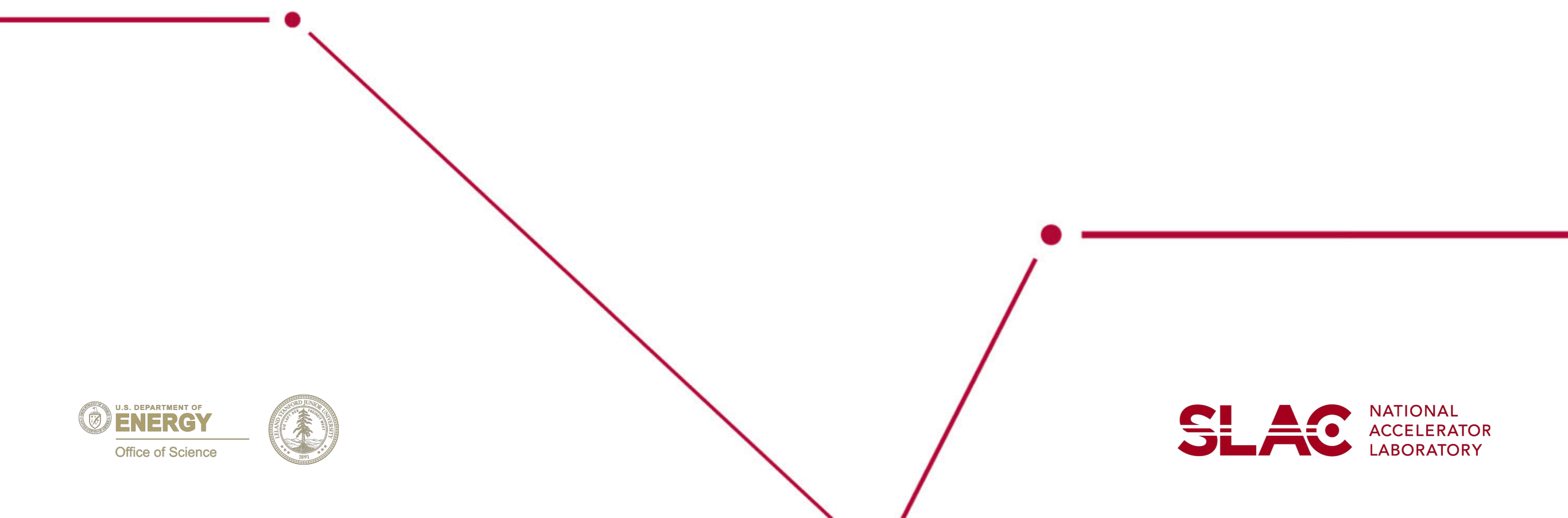


SVT Hits in Field-off data from 2015

Matt Graham

February 18, 2019

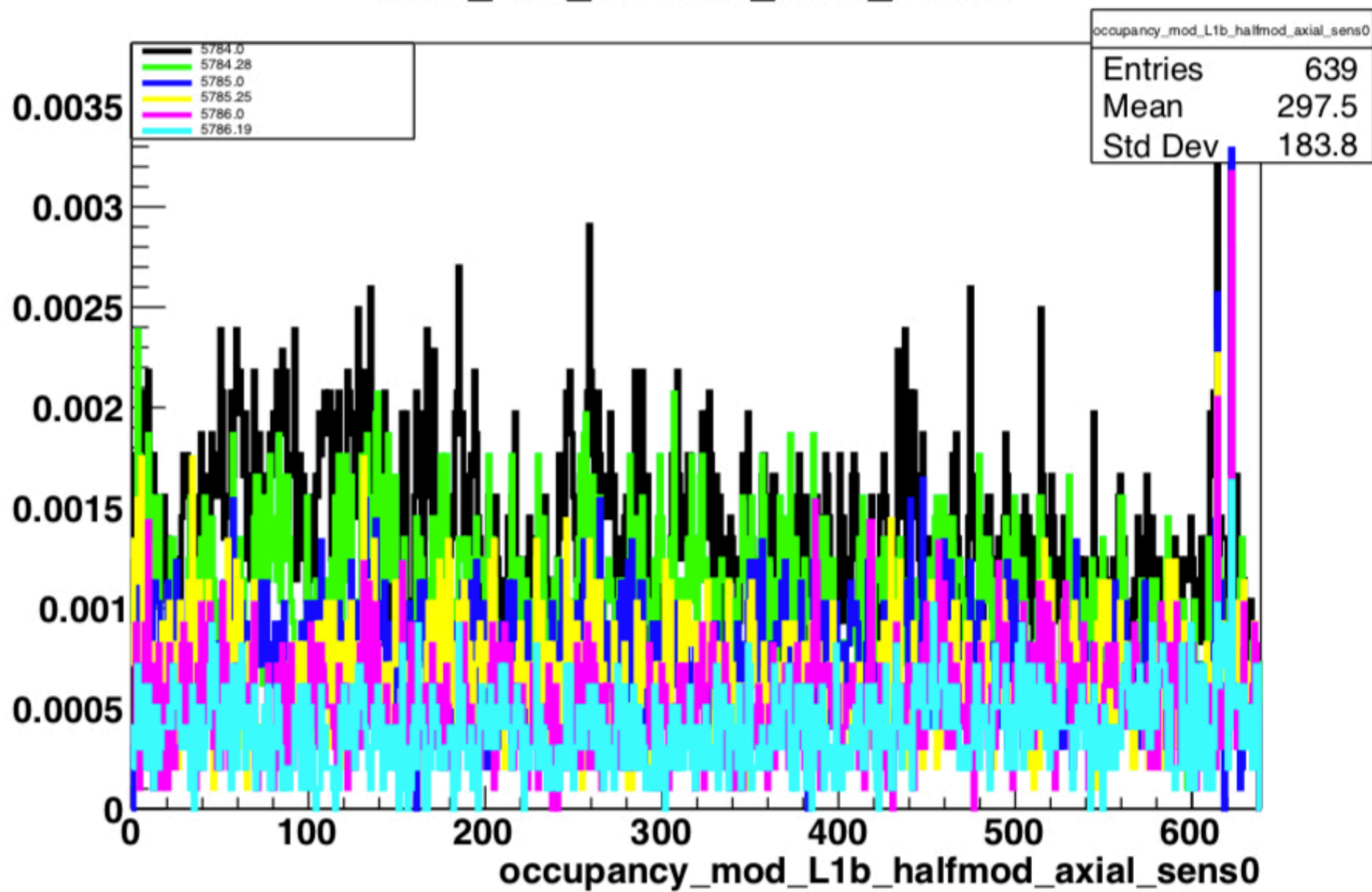


- Field-off runs for the 2015 run:
 - run 5784 — motor position at 2HO2 is at 4.19 BPMX was -0.7
 - run 5785 — motor position at 2HO2 is at 4.639 2H02BPMX is 0.5
 - run 5786 — motor position at 2HO2 is at 6.115 2H02BPMX is x-1.8
Y-0.7
 - taken between 7:24-7:58pm 5/17/2015; each run ~6-8 minutes
 - same trigger: v7tb-Lat147_Straight.cnf
- Ran standard recon + DQM analysis
org.hps.analysis.dataquality.SvtMonitoring.java driver to make
occupancy, t0, amplitude etc plots for beginning and end of each
run (6 files total)

Observations

- significant occupancies seen in hole-side L4-6 sensors; L1-3 looks like they are just getting halo or very broad tails
- Within runs:
 - for the first two runs (5764, 5765) occupancy decrease ~15-25% (just eyeballing)
 - last run (5766), rates are stable
- Between runs there are big drops, likely due to upstream harp wire movement
-

mod_L1b_halfmod_axial_sens0



All plots have this key:
black=early run 5764
green=late run 5764
blue=early run 5765
yellow=late run 5765
purple=early run 5766
teal=late run 5766

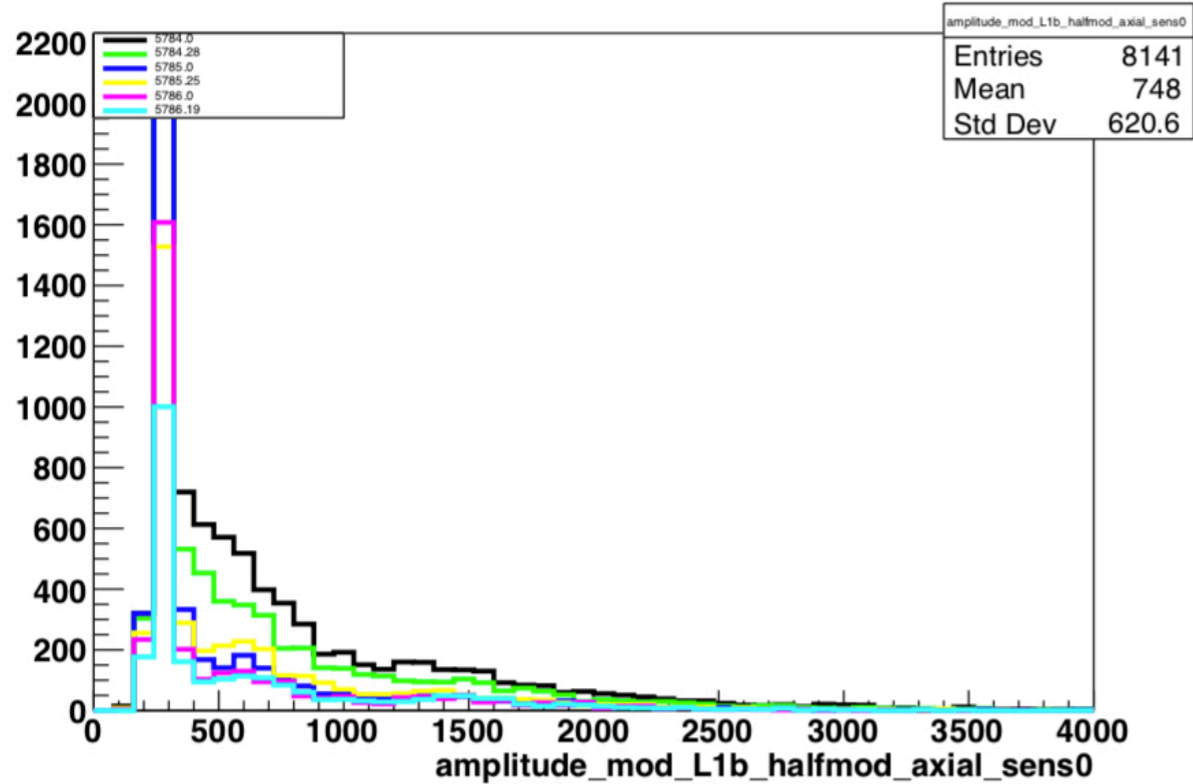
occupancy x-axis
is channel number

↑
what's
plotted

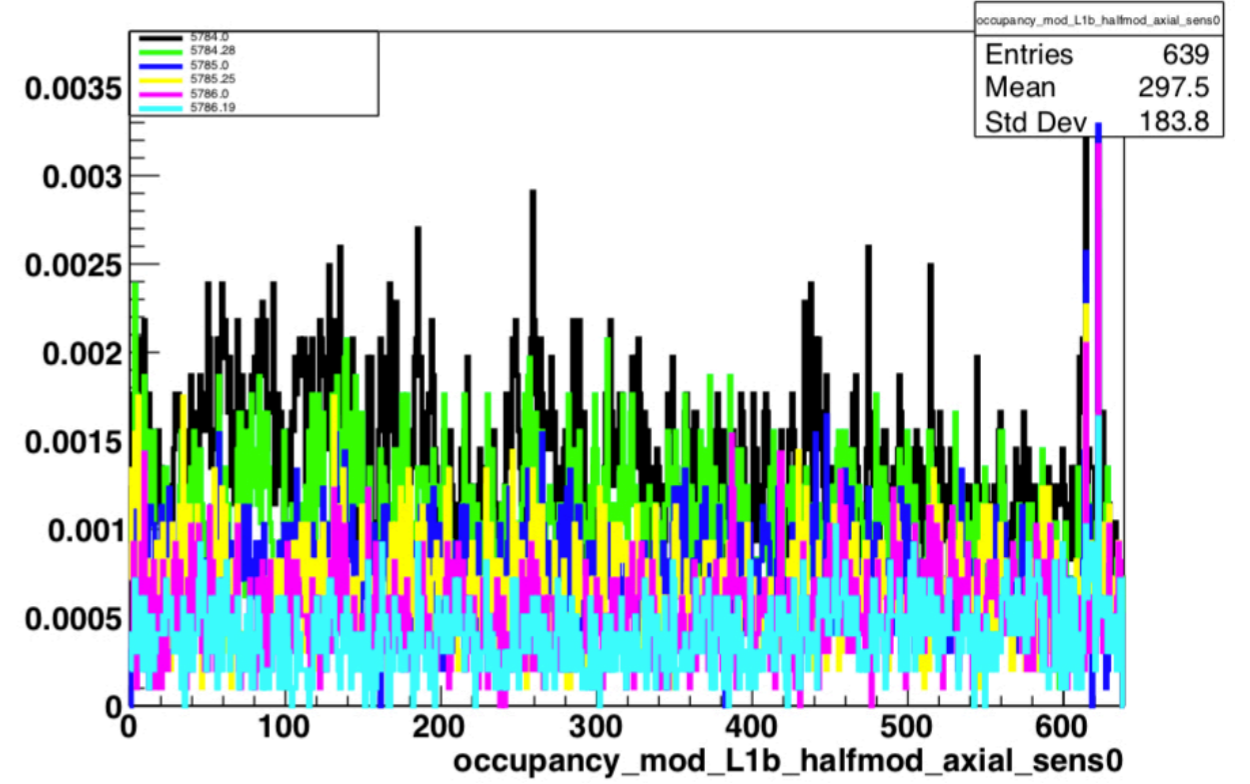
_____ for which sensor

L1b-axial

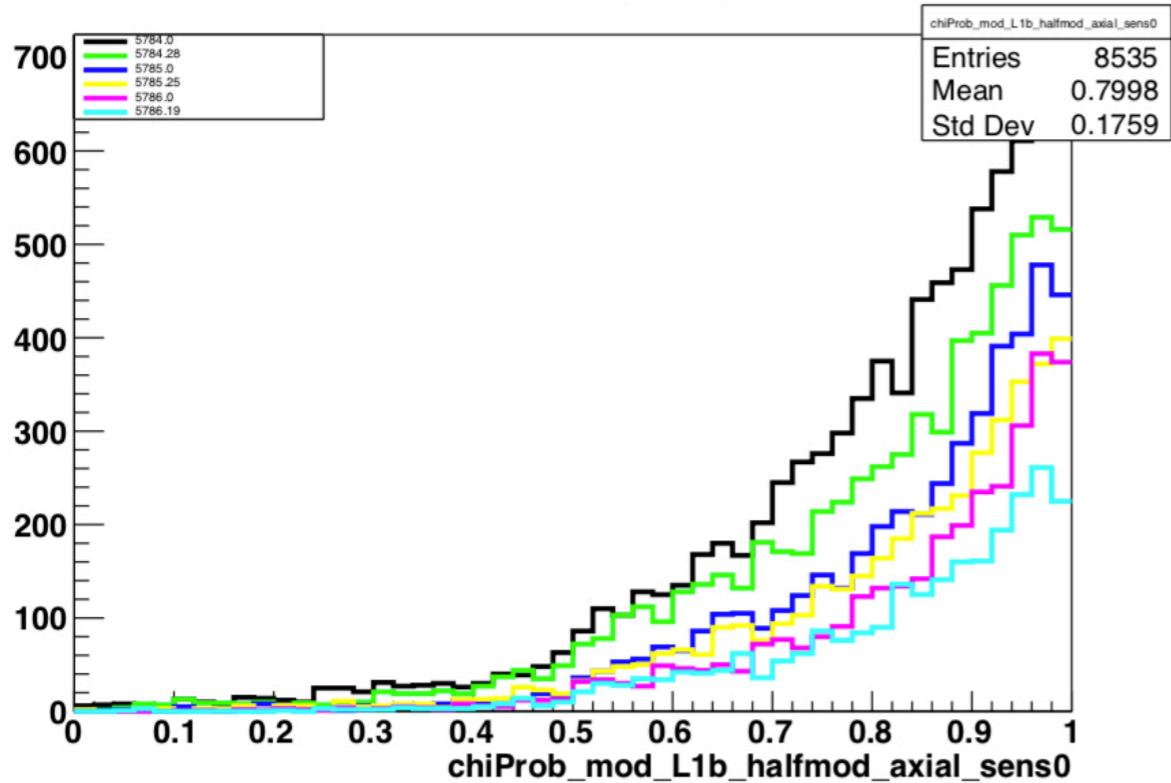
mod_L1b_halfmod_axial_sens0



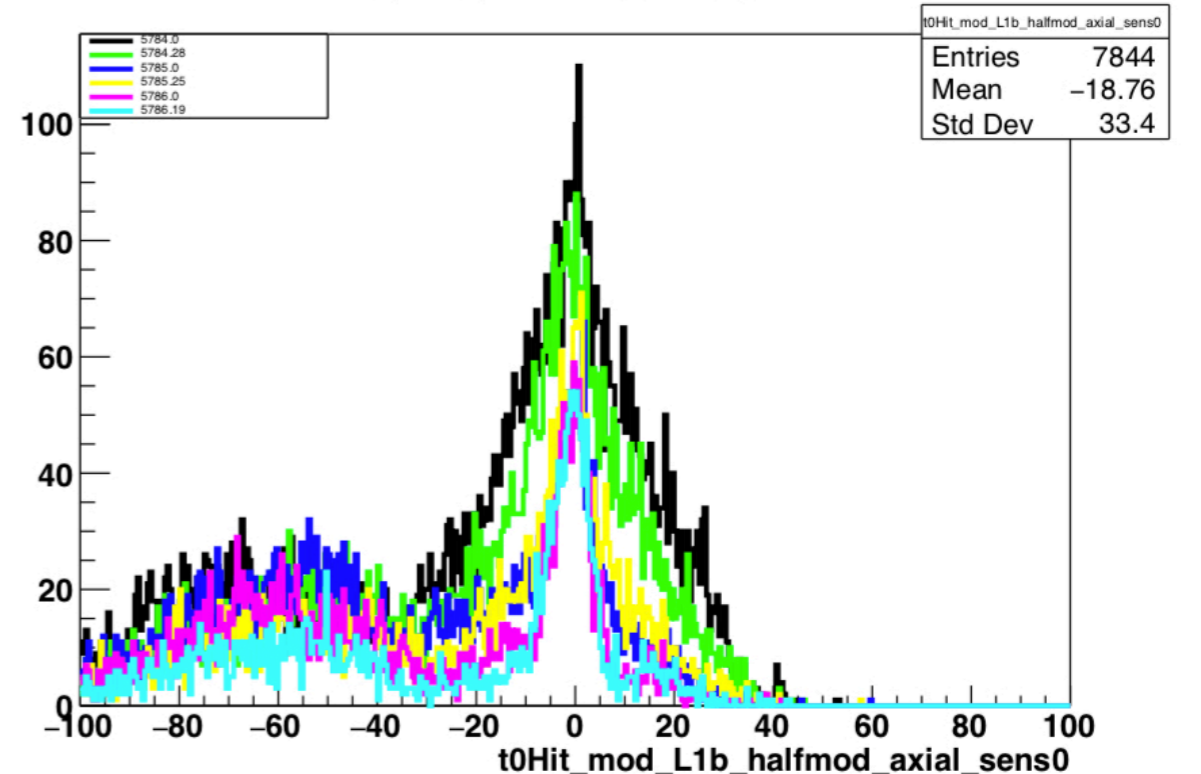
mod_L1b_halfmod_axial_sens0



mod_L1b_halfmod_axial_sens0

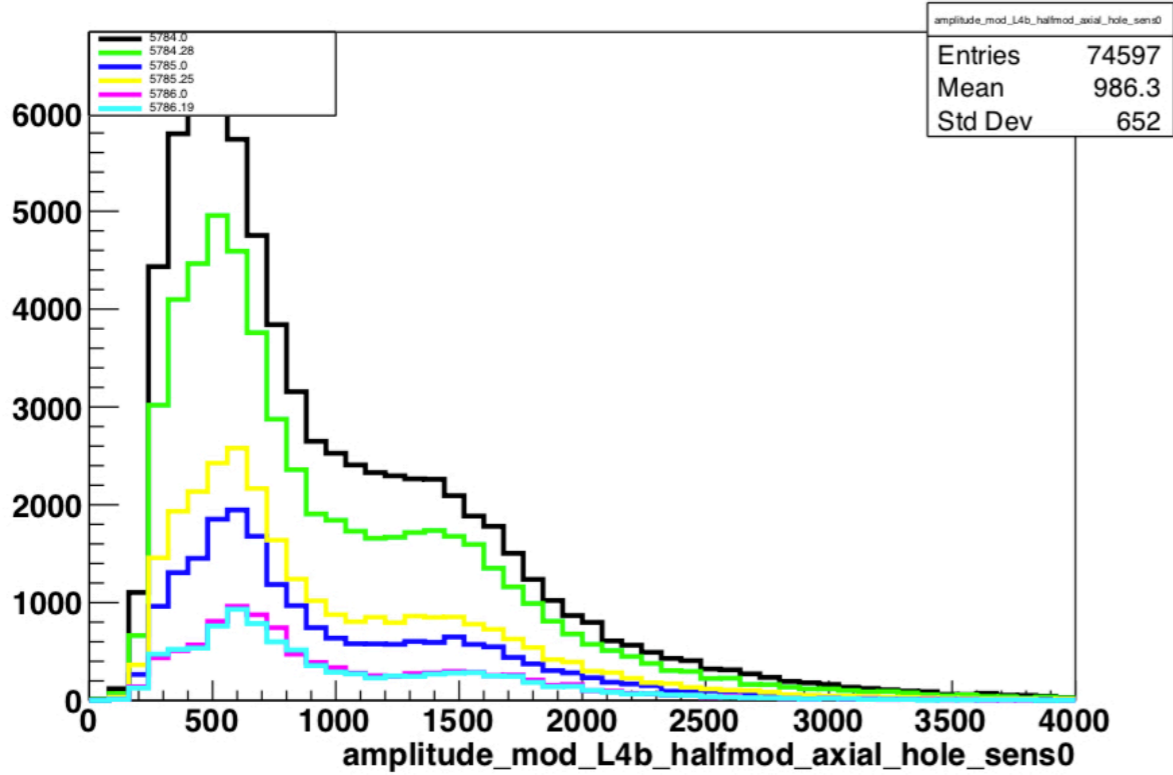


mod_L1b_halfmod_axial_sens0

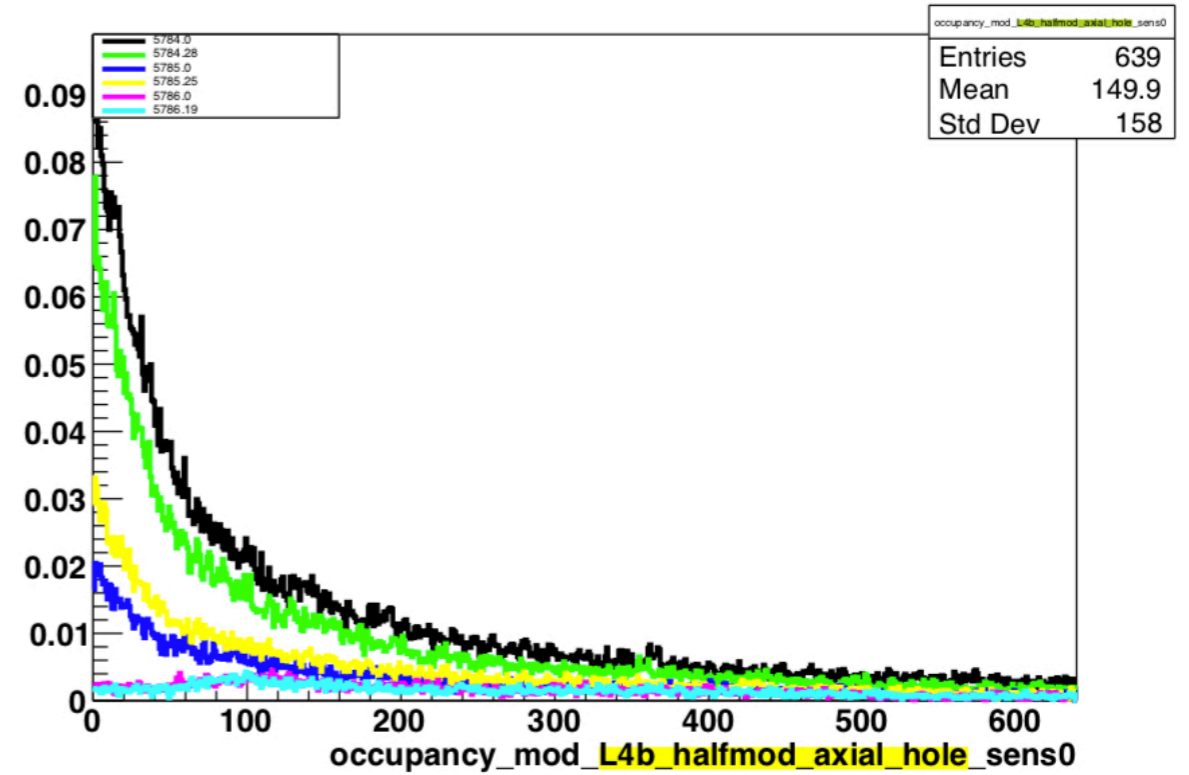


L4b-axial-hole

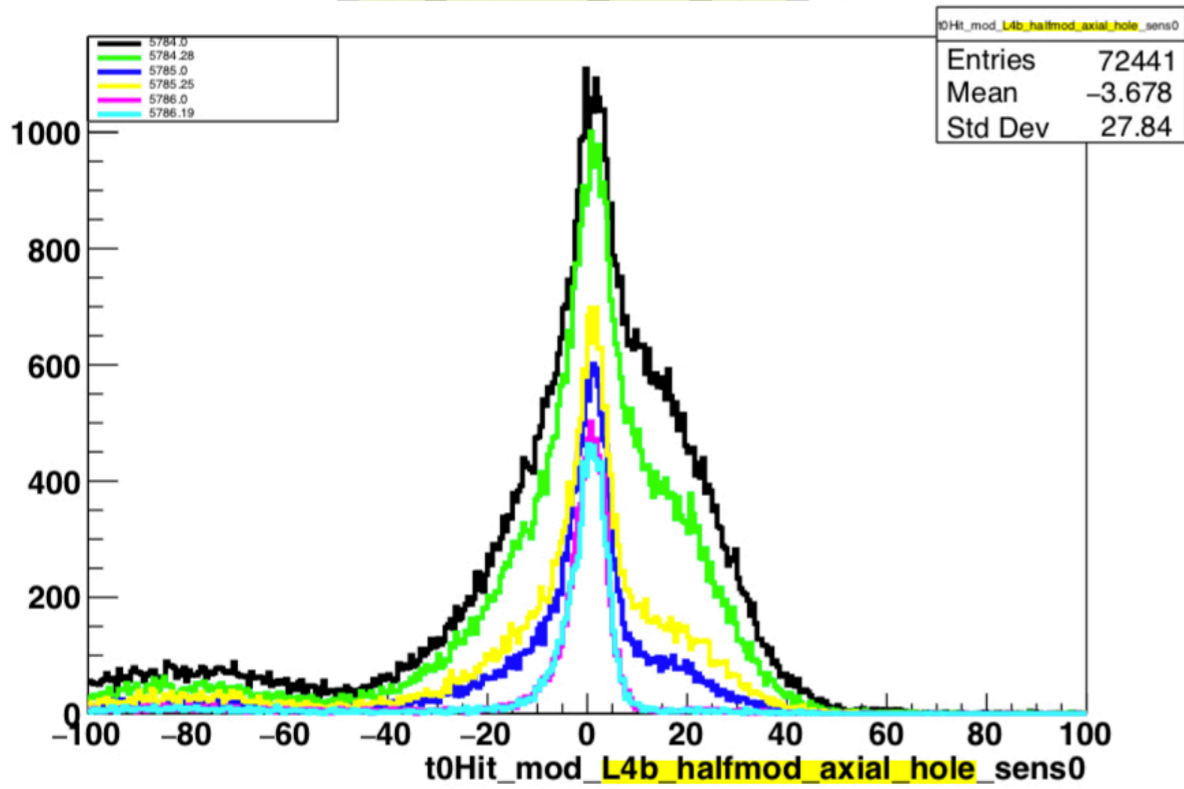
mod_L4b_halfmod_axial_hole_sens0



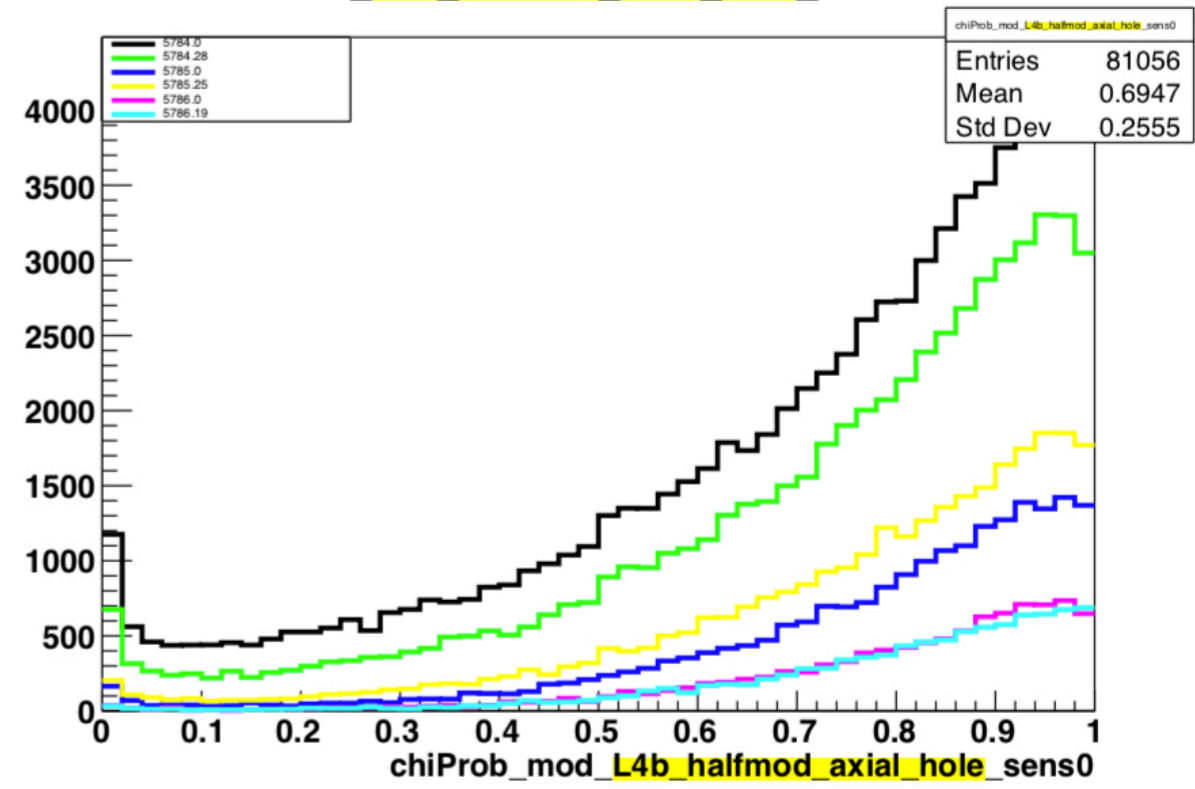
mod_L4b_halfmod_axial_hole_sens0



mod_L4b_halfmod_axial_hole_sens0



mod_L4b_halfmod_axial_hole_sens0



L6t-axial-hole

