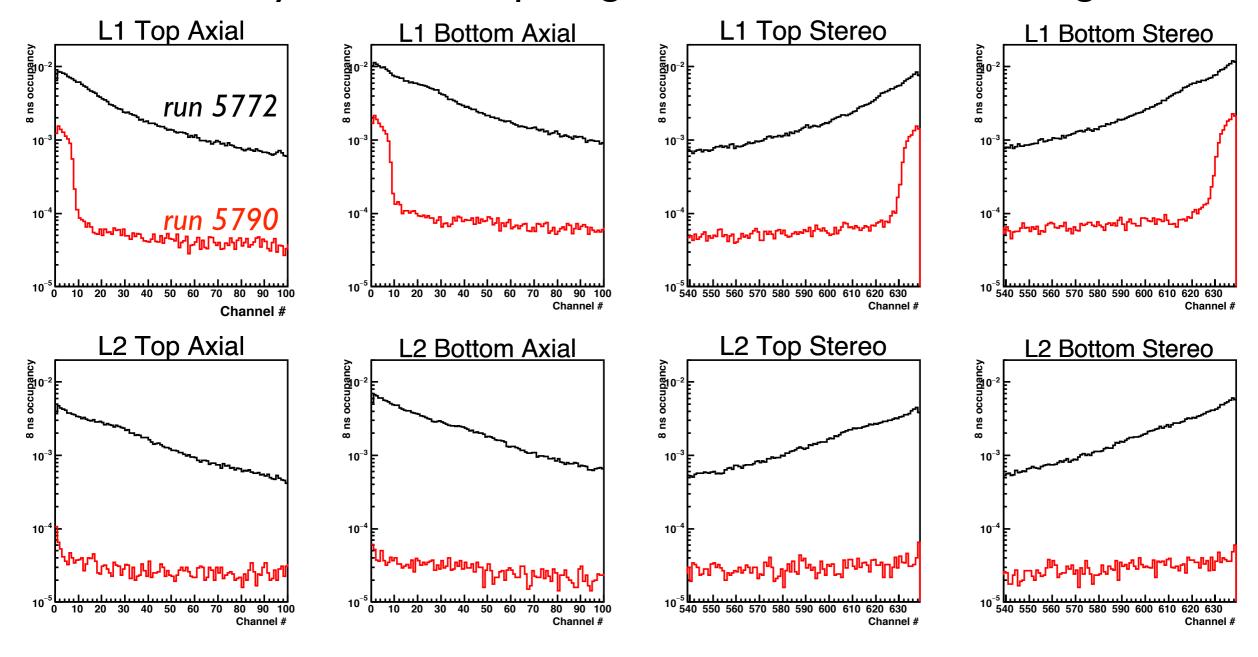
Beam Tails in the SVT

Tim Nelson - 8/24/15

Excess Occupancy at Edges of L1 Sensors

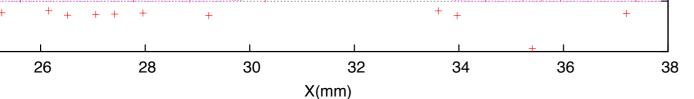
Effect is clearly seen in comparing runs with and without target



Occupancy is roughly 1/5 of physics occupancy, in 8-10 60 μ m strips.

aneters determined by the fit for this scan and houghts lown here are tabulated in Table 1.

- Tails at this level are not a problem for the SVT. However, if these tails were to be an order of magnitude larger, they would dominates the tails * occupancy in the critical regions of L h(x)+back
- If distribution of tails will be similar, want collimator ~20×0.060 mm = 1.2 mm smaller than during the engineering run. 3.45 mm - 1.2 mm = 2.25 mm.
- very roughly speaking this level of beam tails corresponds to those which were measured during the engineering run, roughly 10⁻⁶.
- I have asked FX to send me the data used to make this plot shown at the collaboration meeting...
- If someone will send me that, I can draw the SVTto bserved tails correctly scaled on this plot!! to the served tails correctly scaled to the served tails of the served tails of the scaled to the served tails of the served tails of the scaled to the served tails of the served tails of the scaled to the served tails of the scaled to the served tails of the served tails of the scaled to the served tails of the served tails of the scaled to the served tails of the served tails of



Y 1mm data Y 25um data g(x)+h(x)+back

