SRS TB ANALYSIS - OCCUPANCY

19. 05. 2021.

Files and cuts

Files/runs:

- Run 16 - 5 GeV, energy scan
- Run 22 - 4 GeV, energy scan
- Run 32 - 3 GeV, energy scan
- Run 36 - 2 GeV, energy scan
- Run 46 - 1 GeV, energy scan

W in front of the 1st sensor!

Signal cuts (to reduce noise):

- $0.5 < \tau < 3.2$
- $0 < \text{signal} < 2000$
- $-2 < t_0 - t_1 < -0.5$
- Nn > 50%

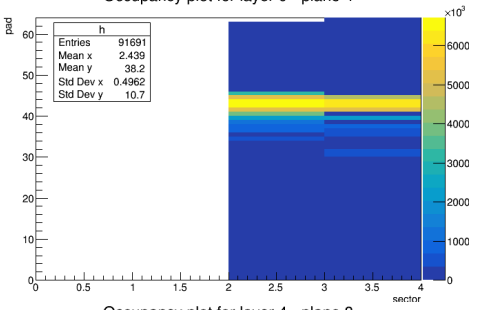
Connecting the SRS to the LumiCal Cheme:

Sensor	Plane	APV	HDMI	FEC No.
59	4	4	1	
10	5	5	2	
57	6	6	3	
Stee	7	7m	4	
53	8	8	5	
64	10	9	6	
T2	12	10	7	
61	14	11	8	

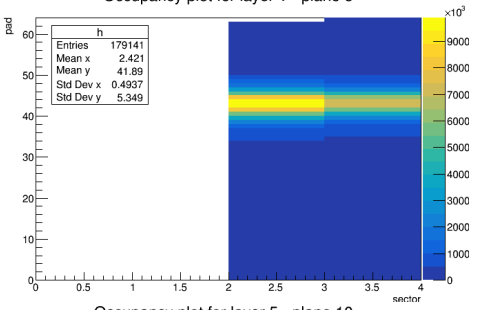
Planes 1,2,3 connected to the FLAME boards

Run 16, 5 GeV, high gain

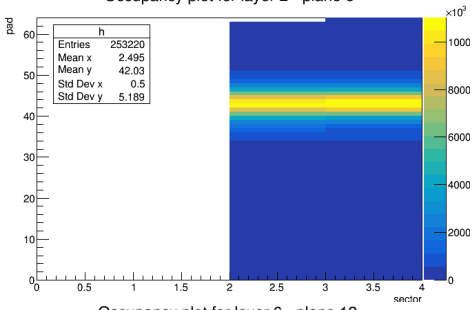
Occupancy plot for layer 0 - plane 4



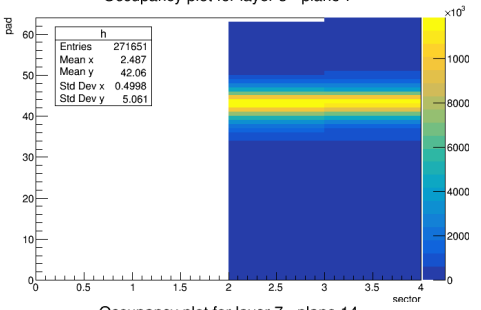
Occupancy plot for layer 1 - plane 5



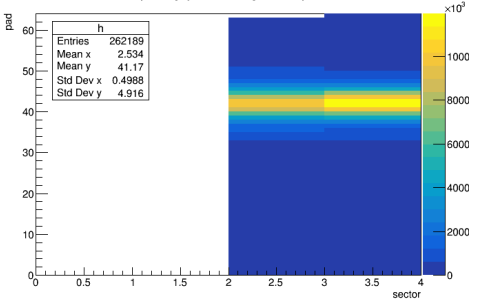
Occupancy plot for layer 2 - plane 6



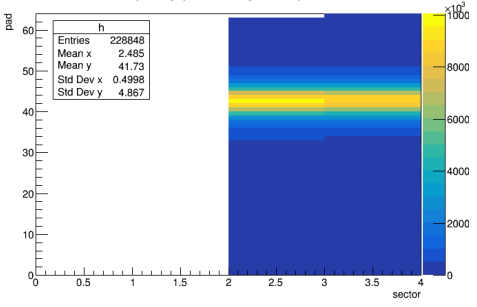
Occupancy plot for layer 3 - plane 7



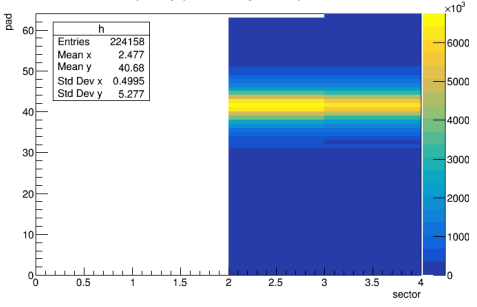
Occupancy plot for layer 4 - plane 8



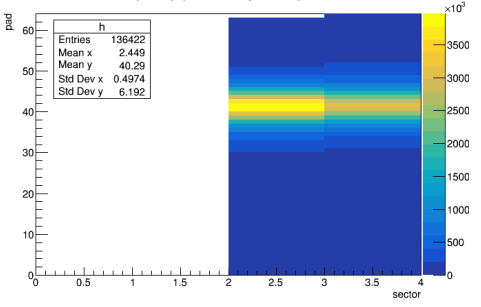
Occupancy plot for layer 5 - plane 10



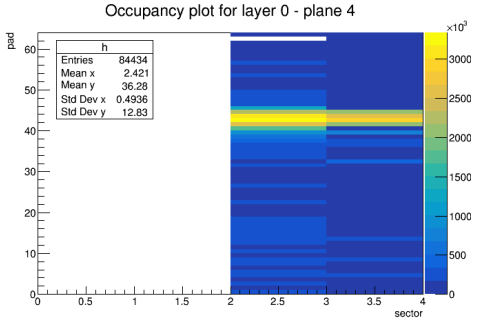
Occupancy plot for layer 6 - plane 12

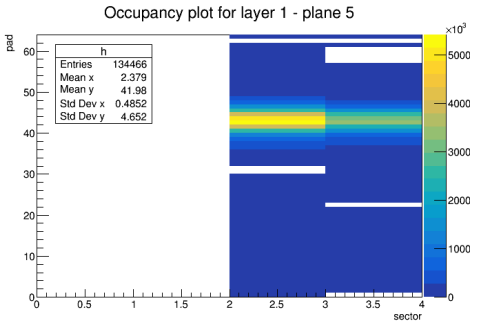


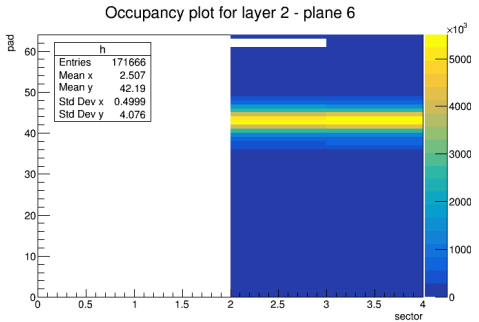
Occupancy plot for layer 7 - plane 14

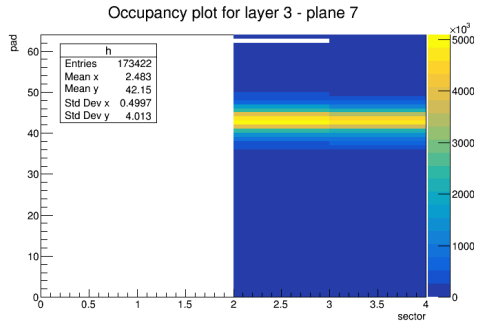


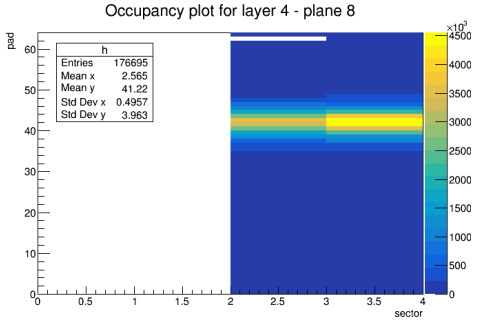
Run 16, 5 GeV, low gain

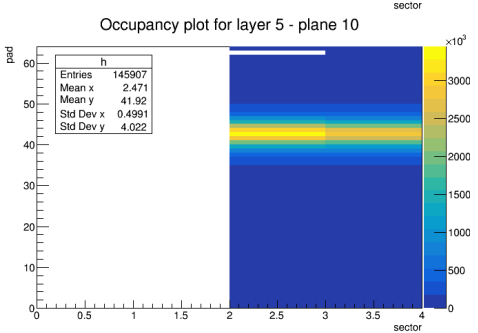


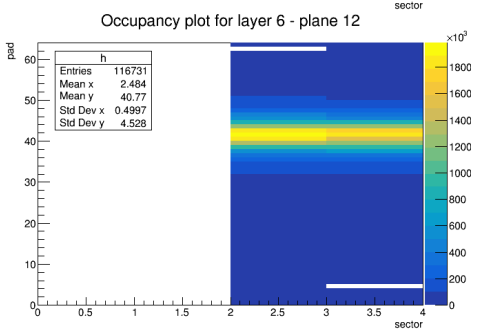


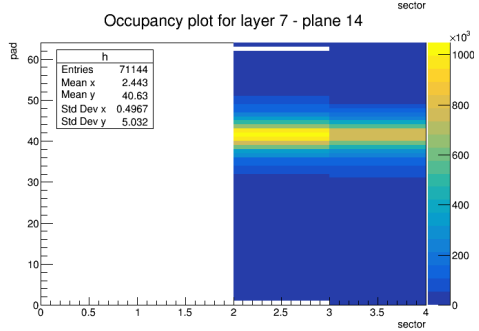






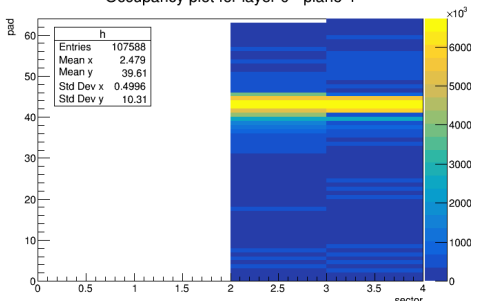




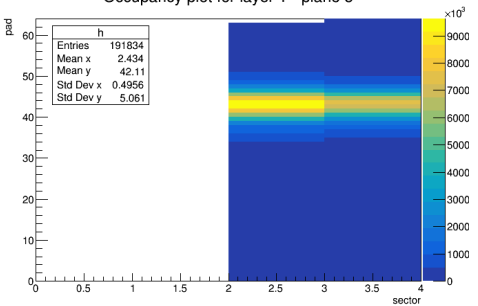


Run 22, 4 GeV, high gain

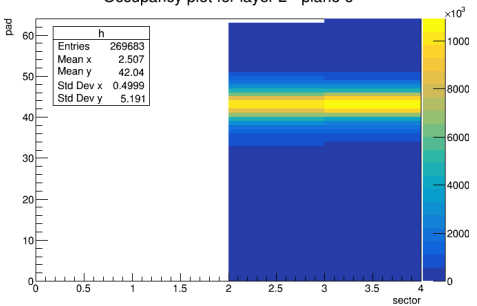
Occupancy plot for layer 0 - plane 4



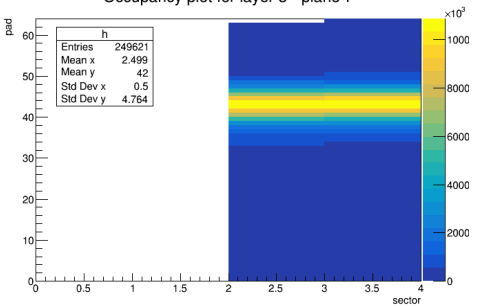
Occupancy plot for layer 1 - plane 5



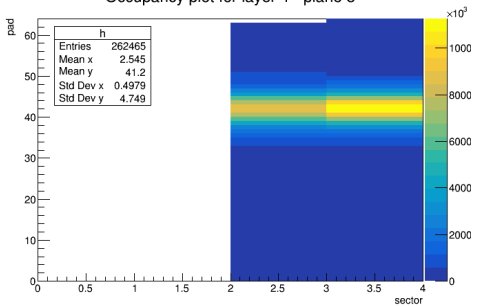
Occupancy plot for layer 2 - plane 6



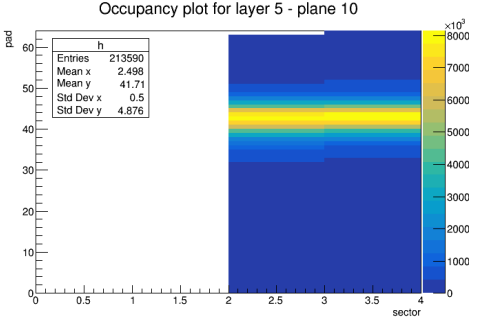
Occupancy plot for layer 3 - plane 7



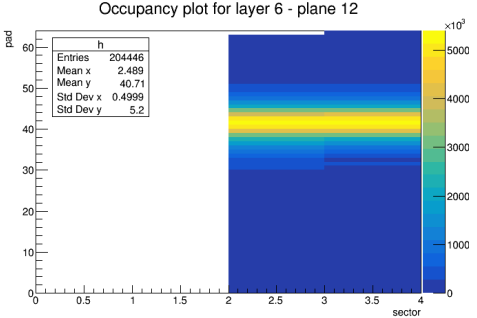
Occupancy plot for layer 4 - plane 8



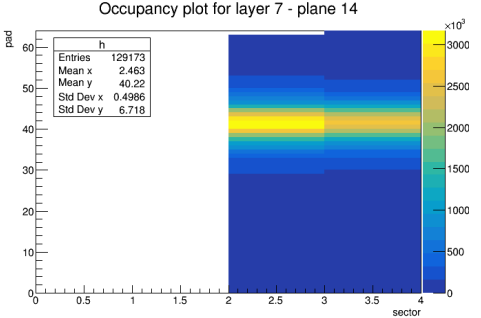
Occupancy plot for layer 5 - plane 10



Occupancy plot for layer 6 - plane 12

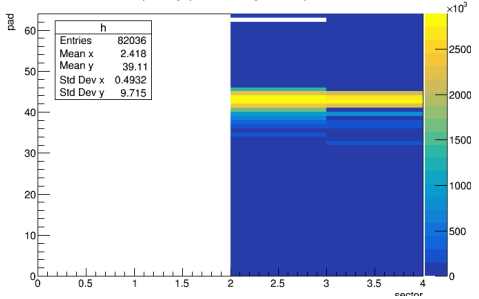


Occupancy plot for layer 7 - plane 14

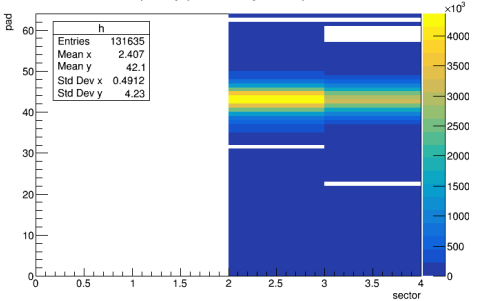


Run 22, 4 GeV, low gain

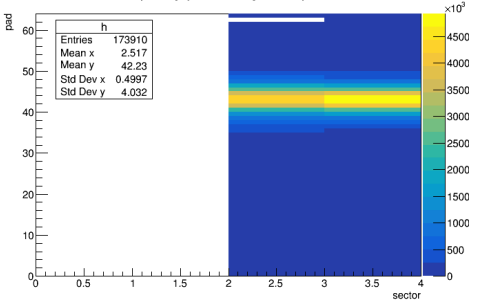
Occupancy plot for layer 0 - plane 4



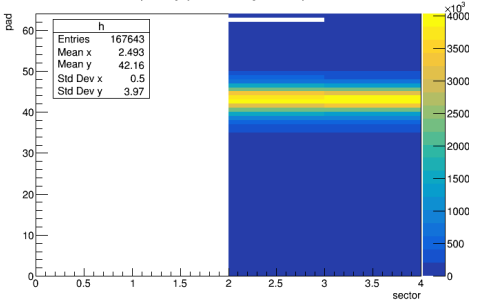
Occupancy plot for layer 1 - plane 5



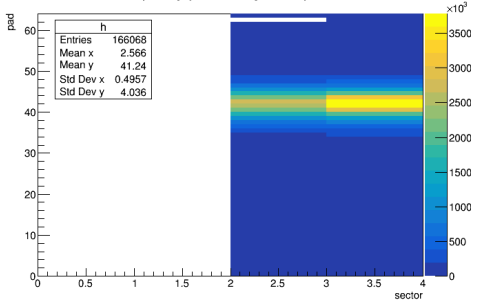
Occupancy plot for layer 2 - plane 6



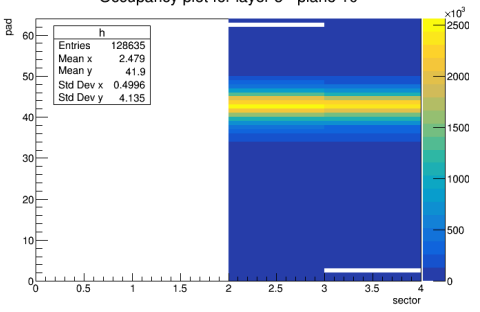
Occupancy plot for layer 3 - plane 7



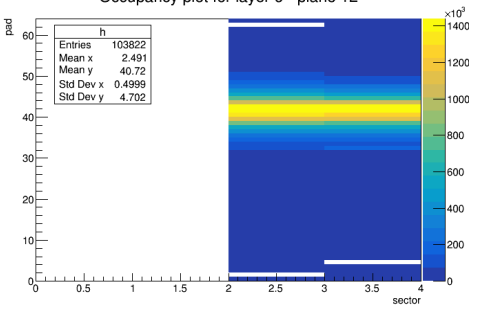
Occupancy plot for layer 4 - plane 8



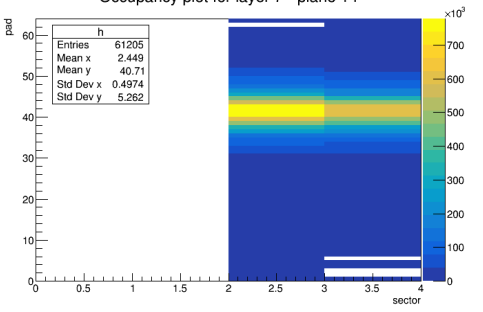
Occupancy plot for layer 5 - plane 10



Occupancy plot for layer 6 - plane 12

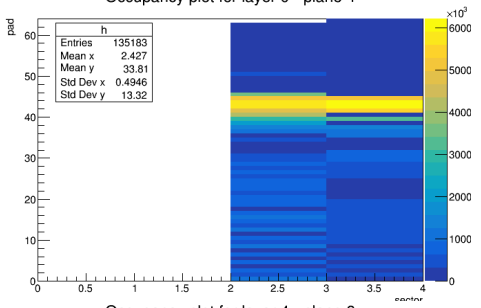


Occupancy plot for layer 7 - plane 14

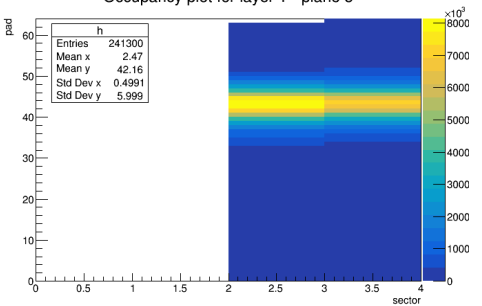


Run 32, 3 GeV, high gain

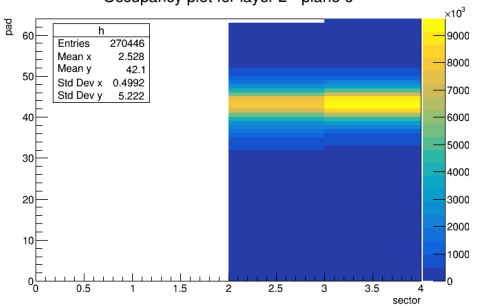
Occupancy plot for layer 0 - plane 4



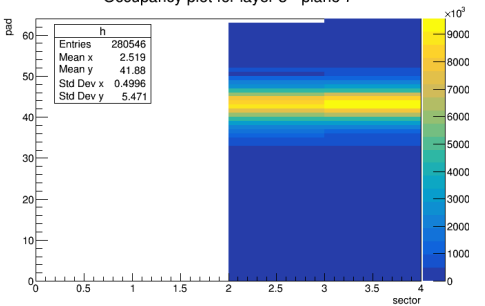
Occupancy plot for layer 1 - plane 5



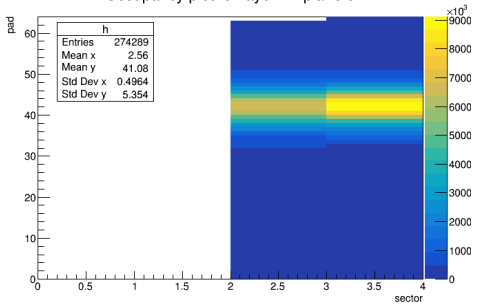
Occupancy plot for layer 2 - plane 6



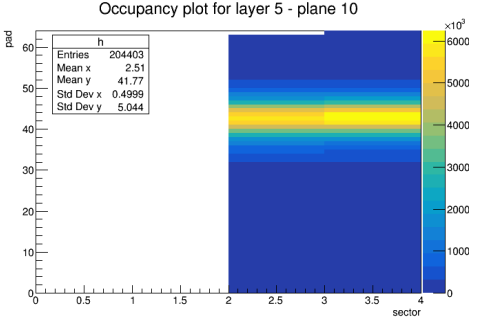
Occupancy plot for layer 3 - plane 7



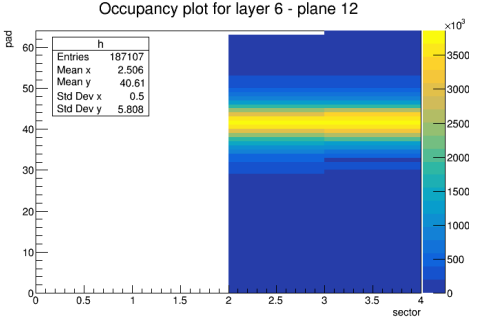
Occupancy plot for layer 4 - plane 8



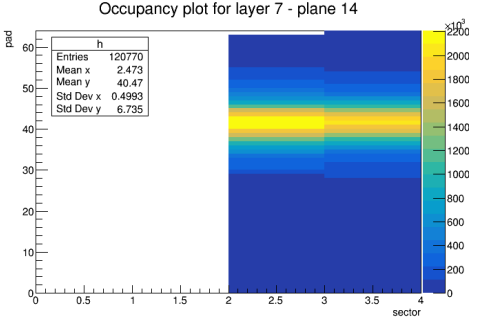
Occupancy plot for layer 5 - plane 10



Occupancy plot for layer 6 - plane 12

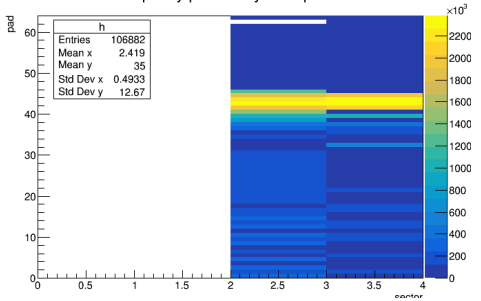


Occupancy plot for layer 7 - plane 14

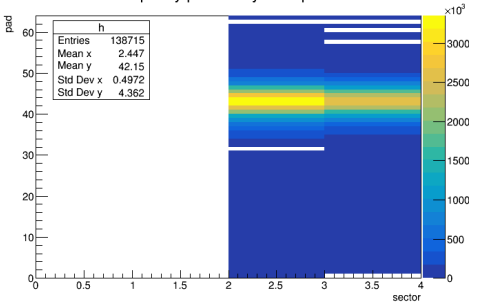


Run 32, 3 GeV, low gain

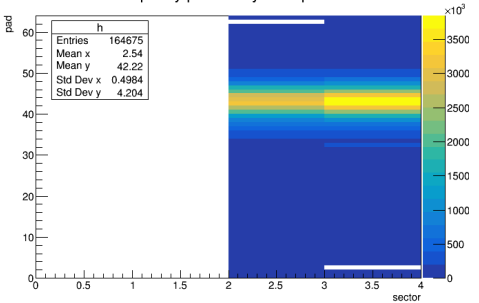
Occupancy plot for layer 0 - plane 4



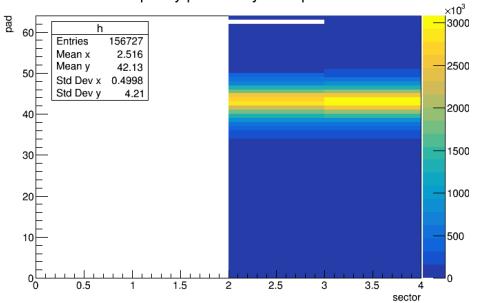
Occupancy plot for layer 1 - plane 5



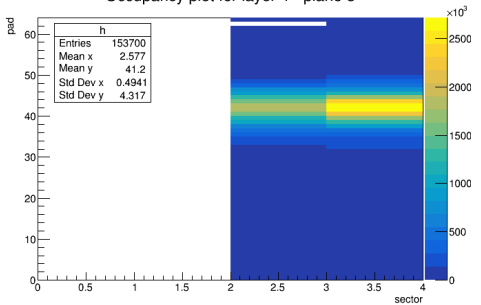
Occupancy plot for layer 2 - plane 6



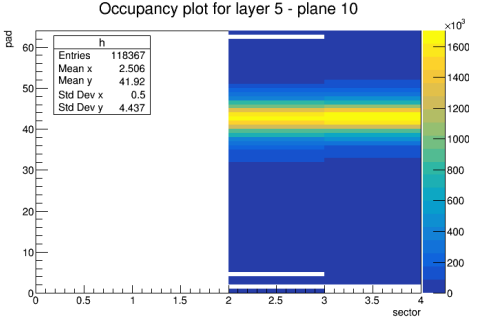
Occupancy plot for layer 3 - plane 7



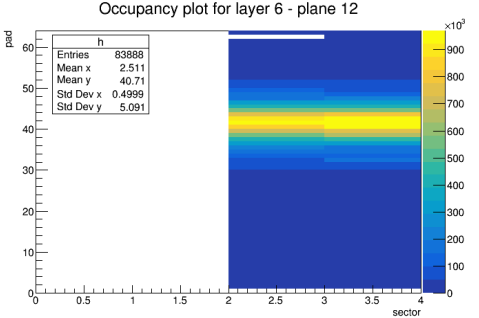
Occupancy plot for layer 4 - plane 8



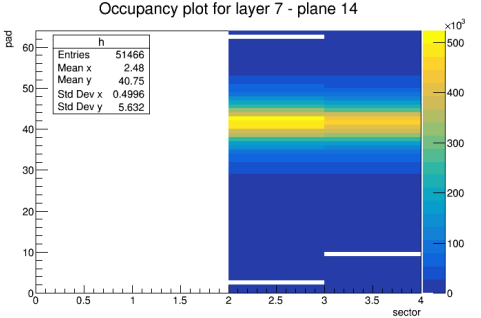
Occupancy plot for layer 5 - plane 10



Occupancy plot for layer 6 - plane 12

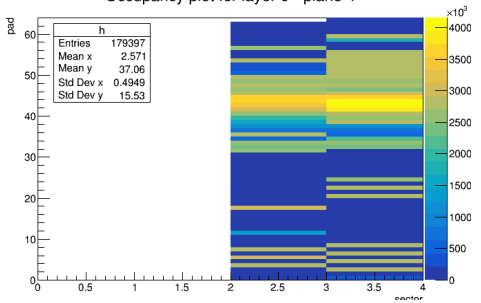


Occupancy plot for layer 7 - plane 14

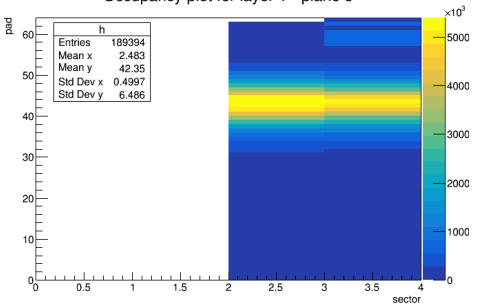


Run 36, 2 GeV, high gain

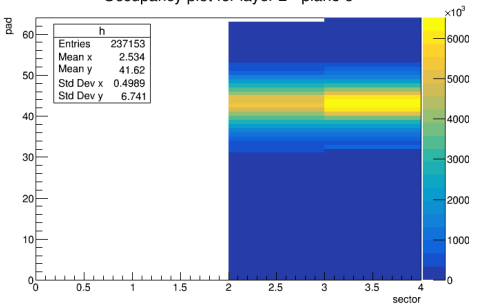
Occupancy plot for layer 0 - plane 4



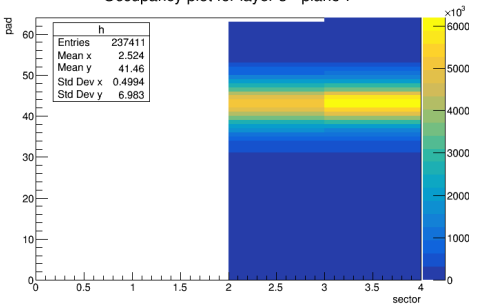
Occupancy plot for layer 1 - plane 5



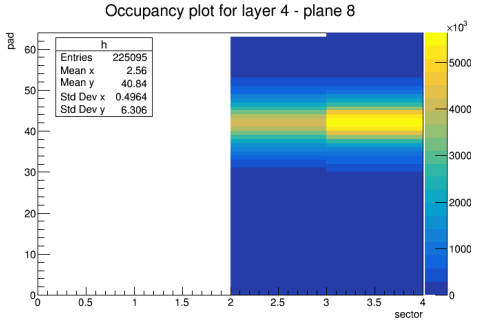
Occupancy plot for layer 2 - plane 6



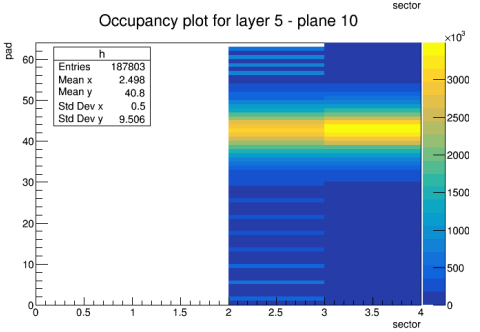
Occupancy plot for layer 3 - plane 7



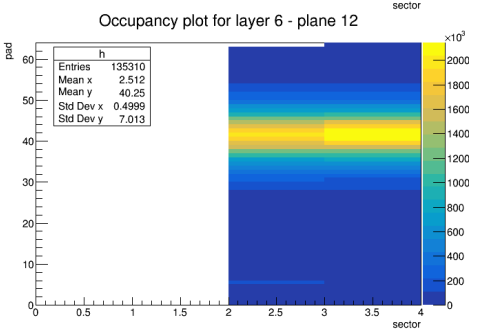
Occupancy plot for layer 4 - plane 8



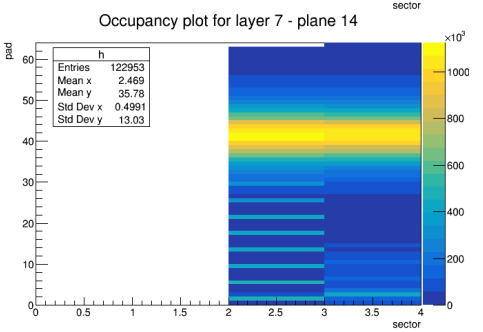
Occupancy plot for layer 5 - plane 10



Occupancy plot for layer 6 - plane 12

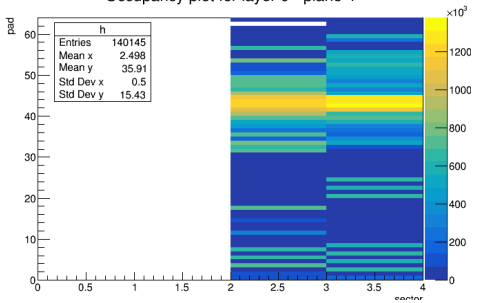


Occupancy plot for layer 7 - plane 14

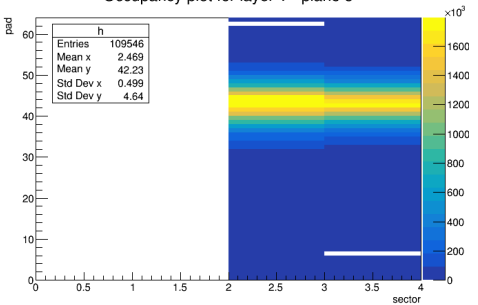


Run 36, 2 GeV, low gain

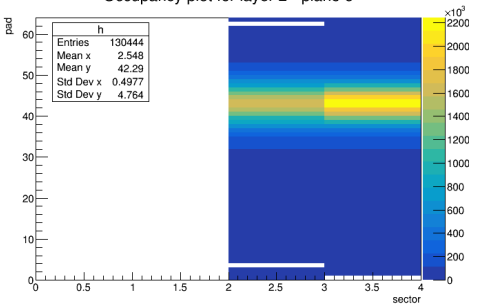
Occupancy plot for layer 0 - plane 4



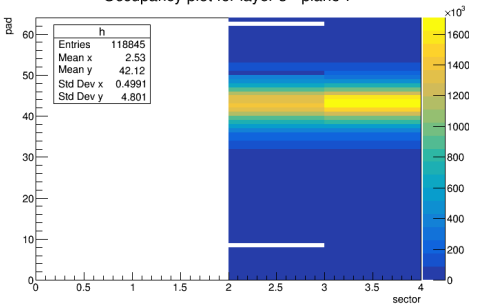
Occupancy plot for layer 1 - plane 5



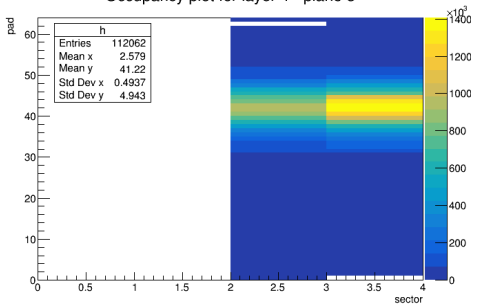
Occupancy plot for layer 2 - plane 6



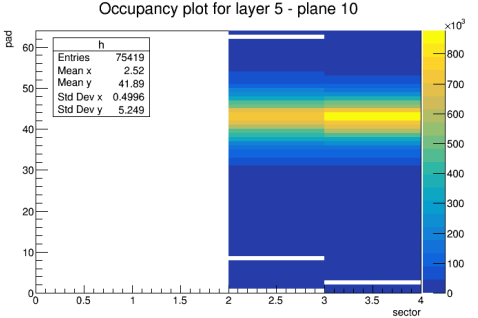
Occupancy plot for layer 3 - plane 7



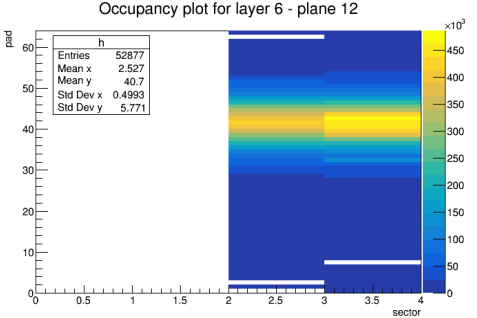
Occupancy plot for layer 4 - plane 8



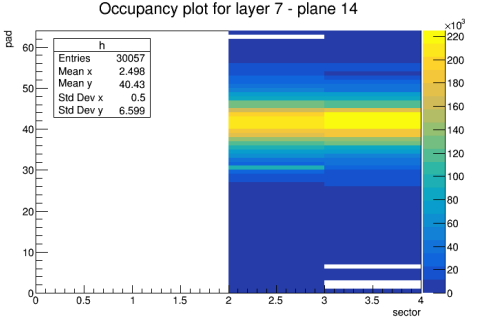
Occupancy plot for layer 5 - plane 10



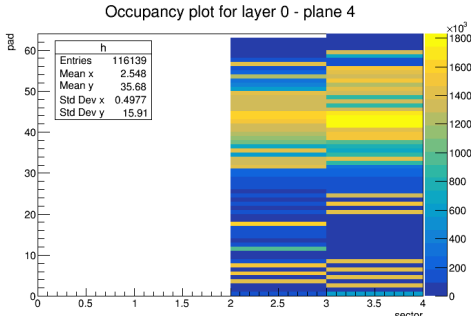
Occupancy plot for layer 6 - plane 12

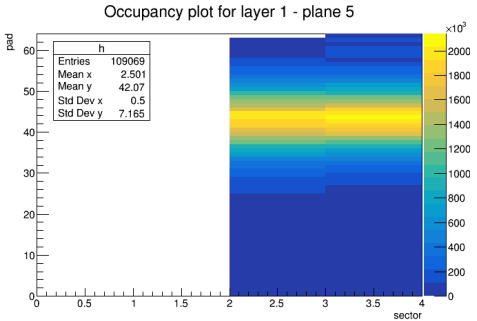


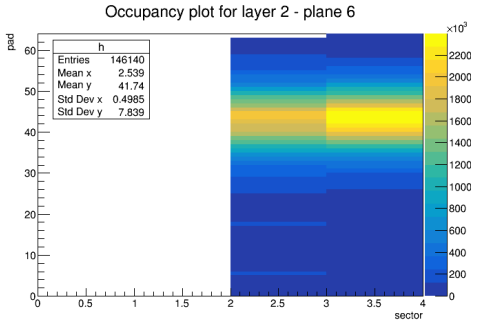
Occupancy plot for layer 7 - plane 14

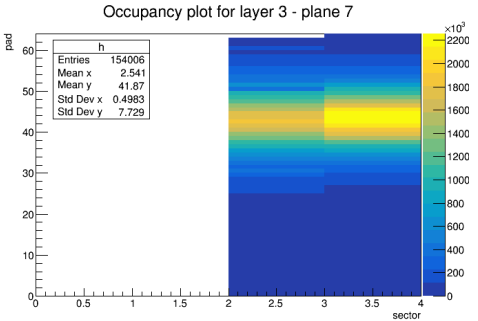


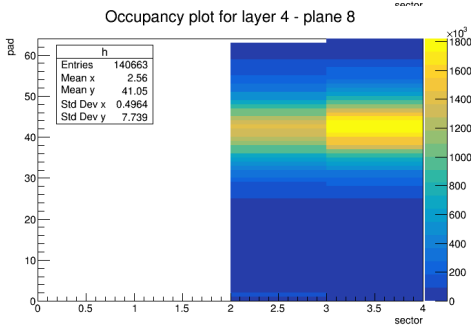
Run 46, 1 GeV, high gain

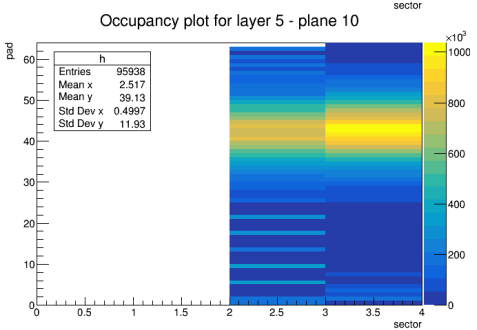


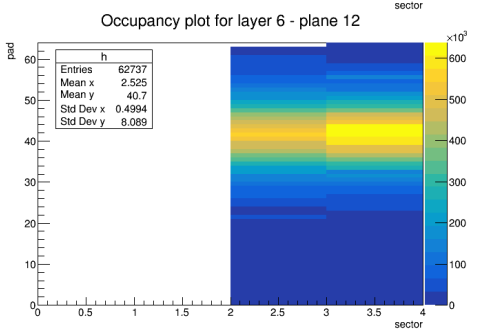


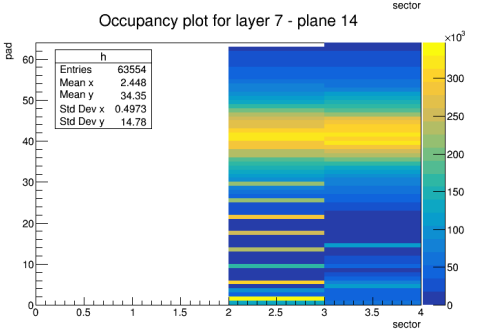






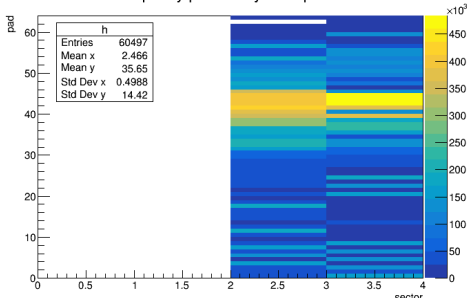




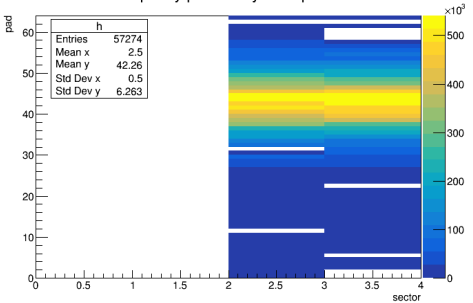


Run 46, 1 GeV, low gain

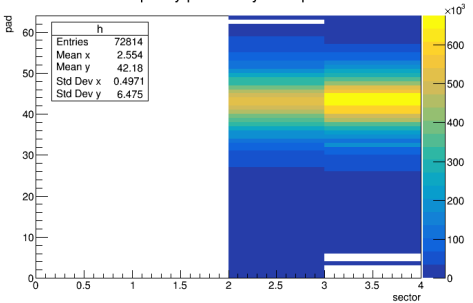
Occupancy plot for layer 0 - plane 4



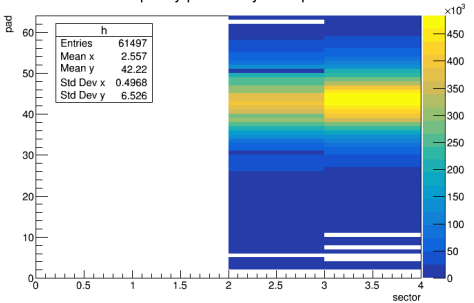
Occupancy plot for layer 1 - plane 5



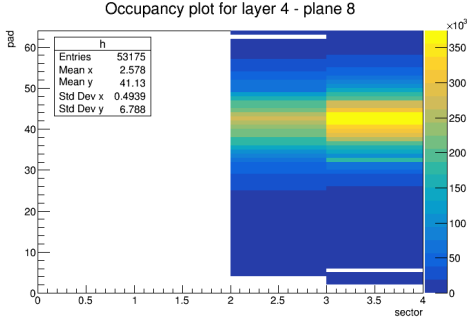
Occupancy plot for layer 2 - plane 6



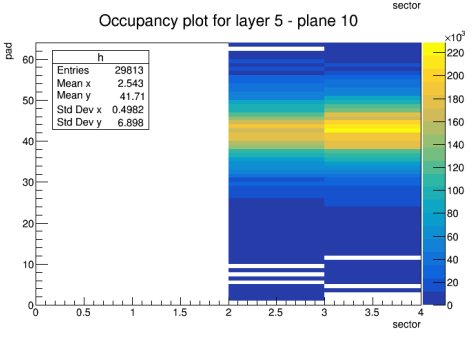
Occupancy plot for layer 3 - plane 7



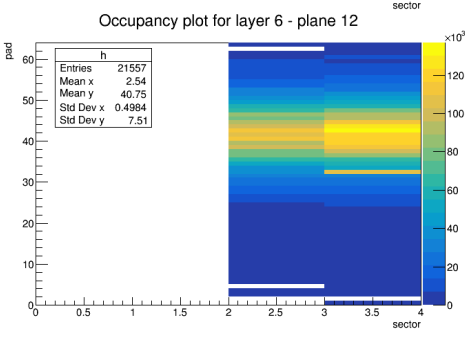
Occupancy plot for layer 4 - plane 8



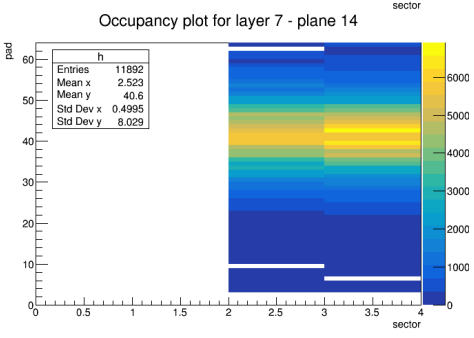
Occupancy plot for layer 5 - plane 10



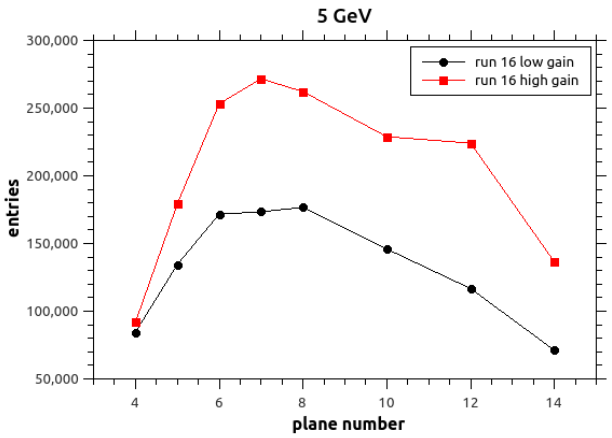
Occupancy plot for layer 6 - plane 12

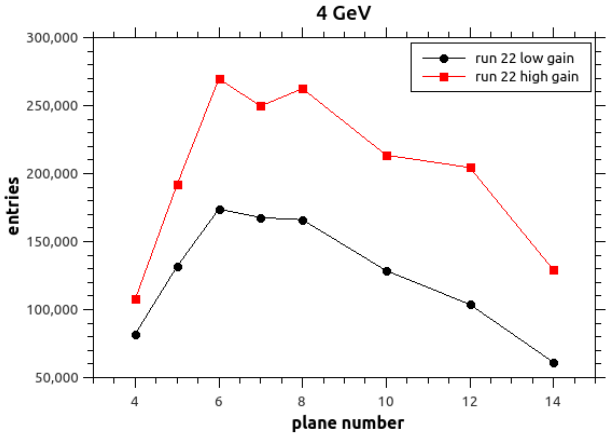


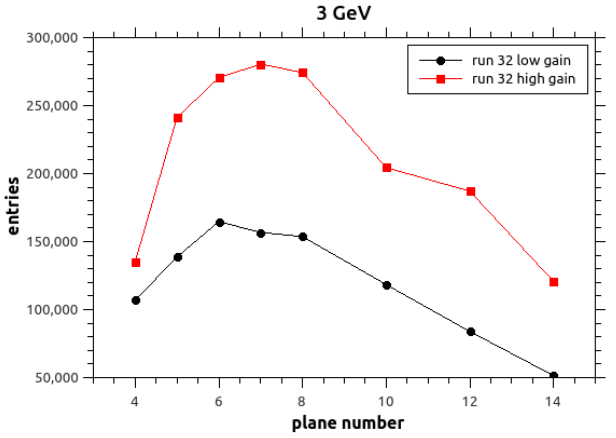
Occupancy plot for layer 7 - plane 14

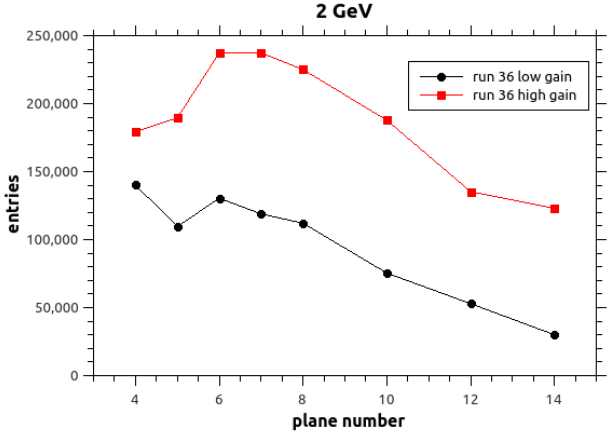


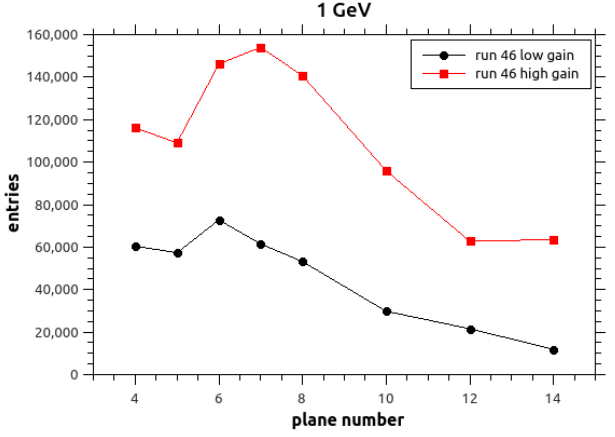
Signal propagation











Thanks for your attention!