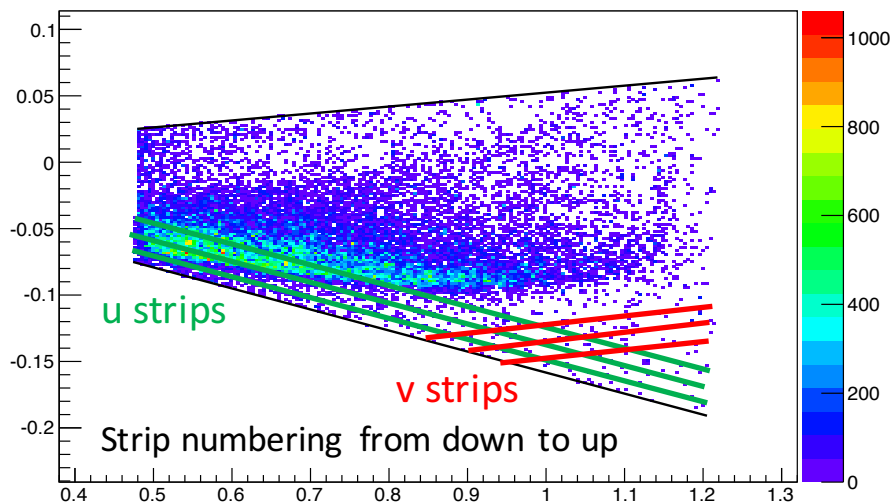


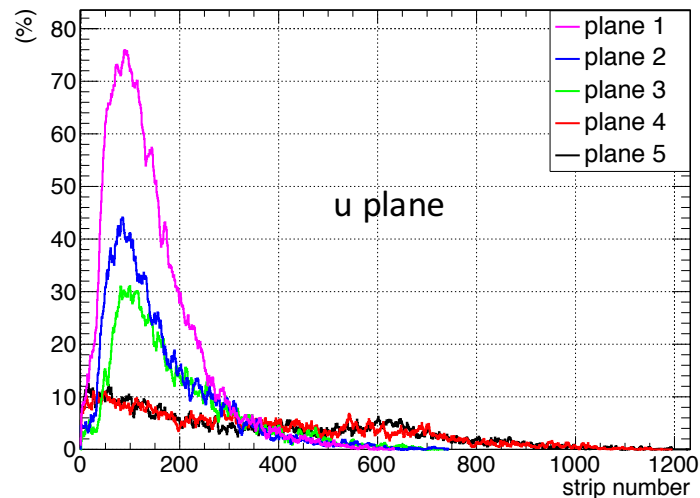
PVDIS Occupancy

- Raw Occupancy with 5 pedestal sigma cut (sigma = 20.7)
- Number of strips for each readout plane:
 - 634 | 743 | 743 | 1195 | 1231
- Mean value of the raw occupancy (in %):
 - u plane: 19.4 | 9.2 | 7.5 | 3.6 | 3.5
 - v plane: 19.5 | 9.2 | 7.5 | 3.5 | 3.4

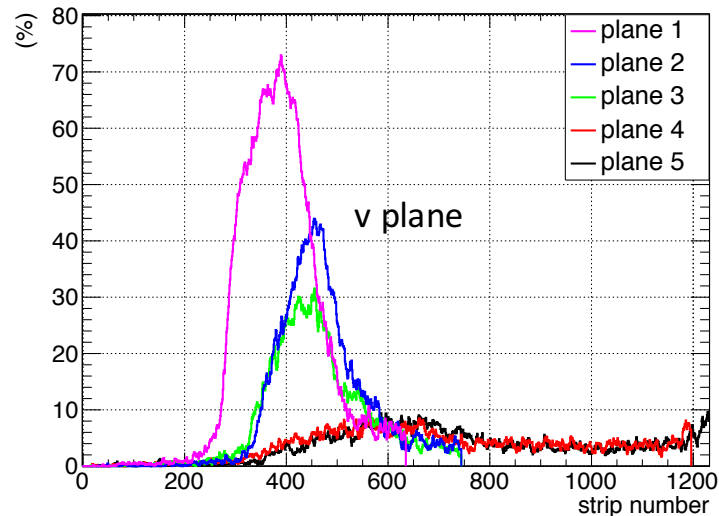
Background hit position on first tracker



PVDIS Occupancy



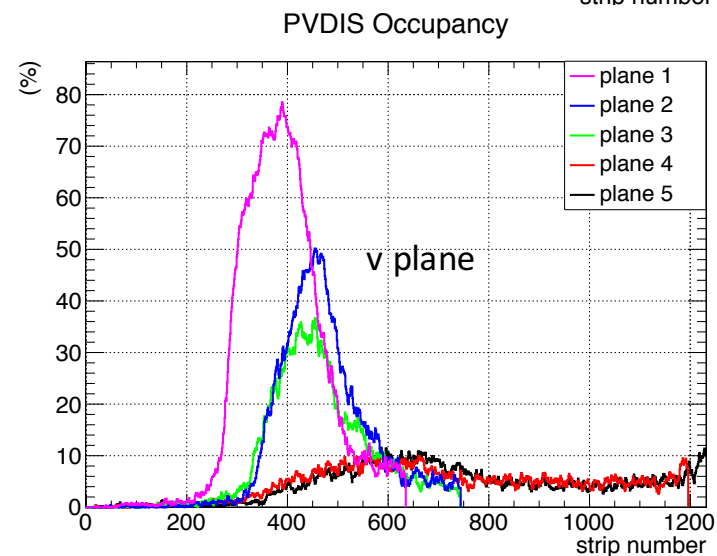
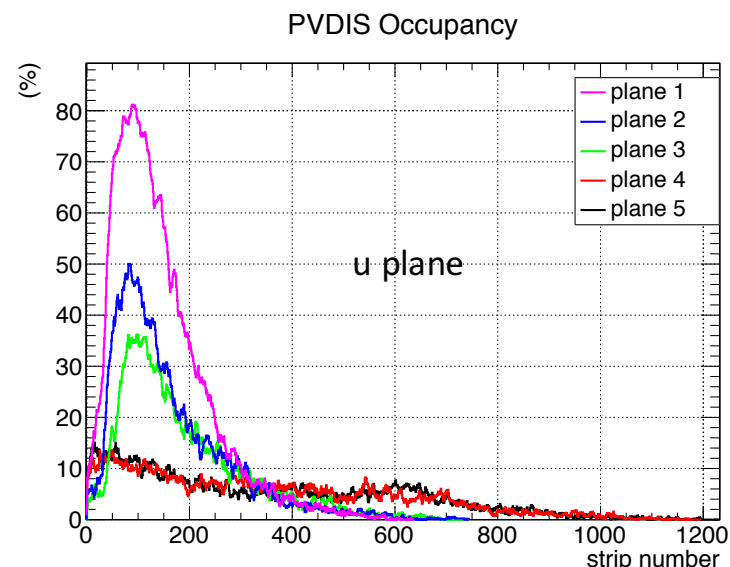
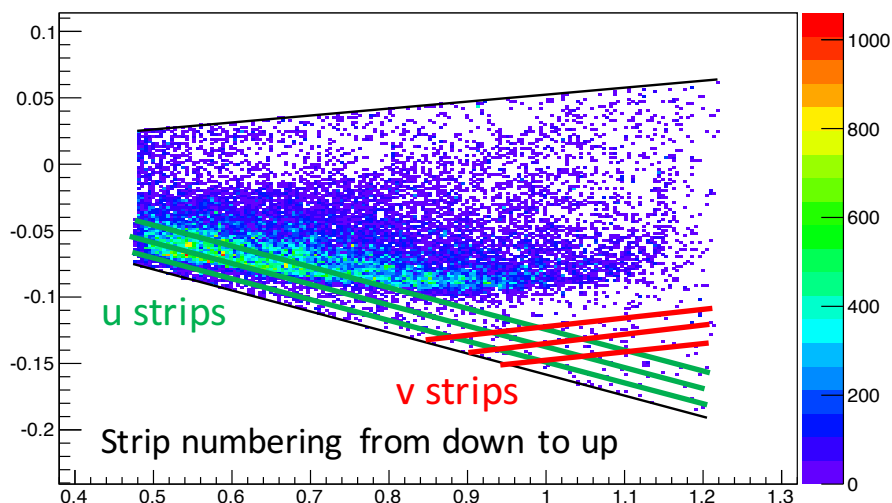
PVDIS Occupancy



PVDIS Occupancy

- Raw Occupancy with 4 pedestal sigma cut (sigma = 20.7)
- Number of strips for each readout plane:
 - 634 | 743 | 743 | 1195 | 1231
- Mean value of the raw occupancy (in %):
 - u plane: 21.9 | 11.1 | 9.2 | 4.5 | 4.4
 - v plane: 22.1 | 11.1 | 9.2 | 4.4 | 4.4
- 4 sigma cut is used in reconstruction to ensure a better efficiency

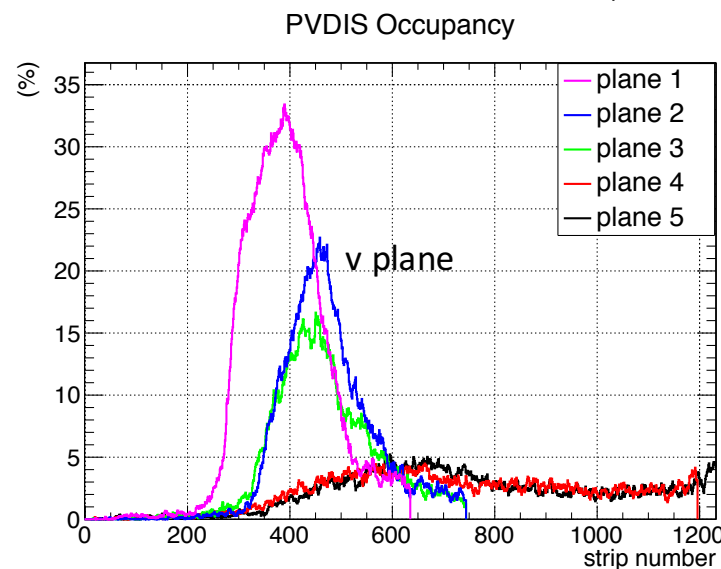
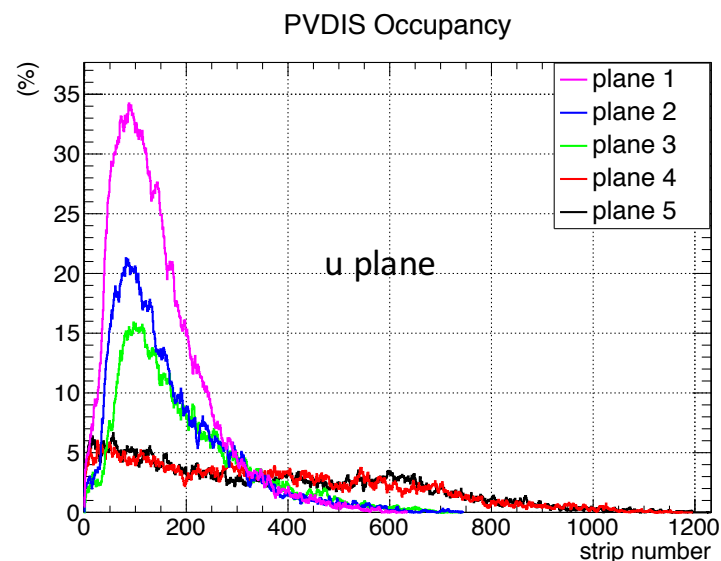
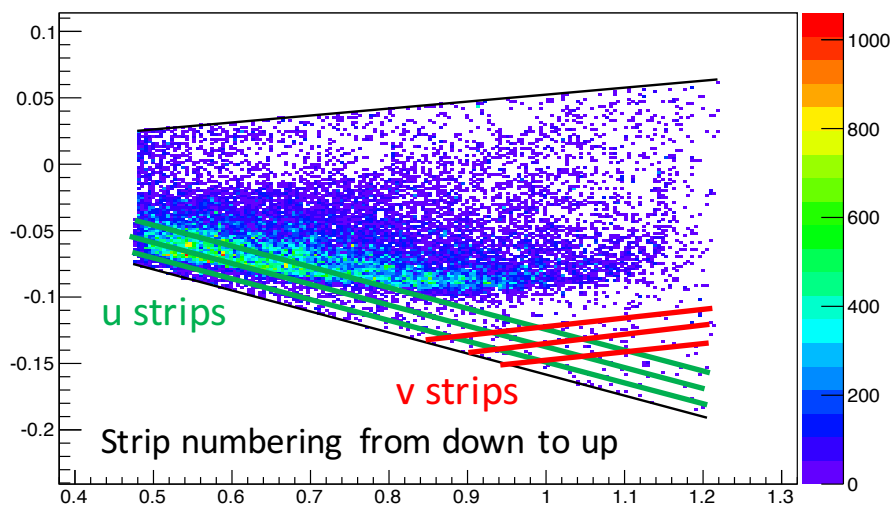
Background hit position on first tracker



PVDIS Occupancy

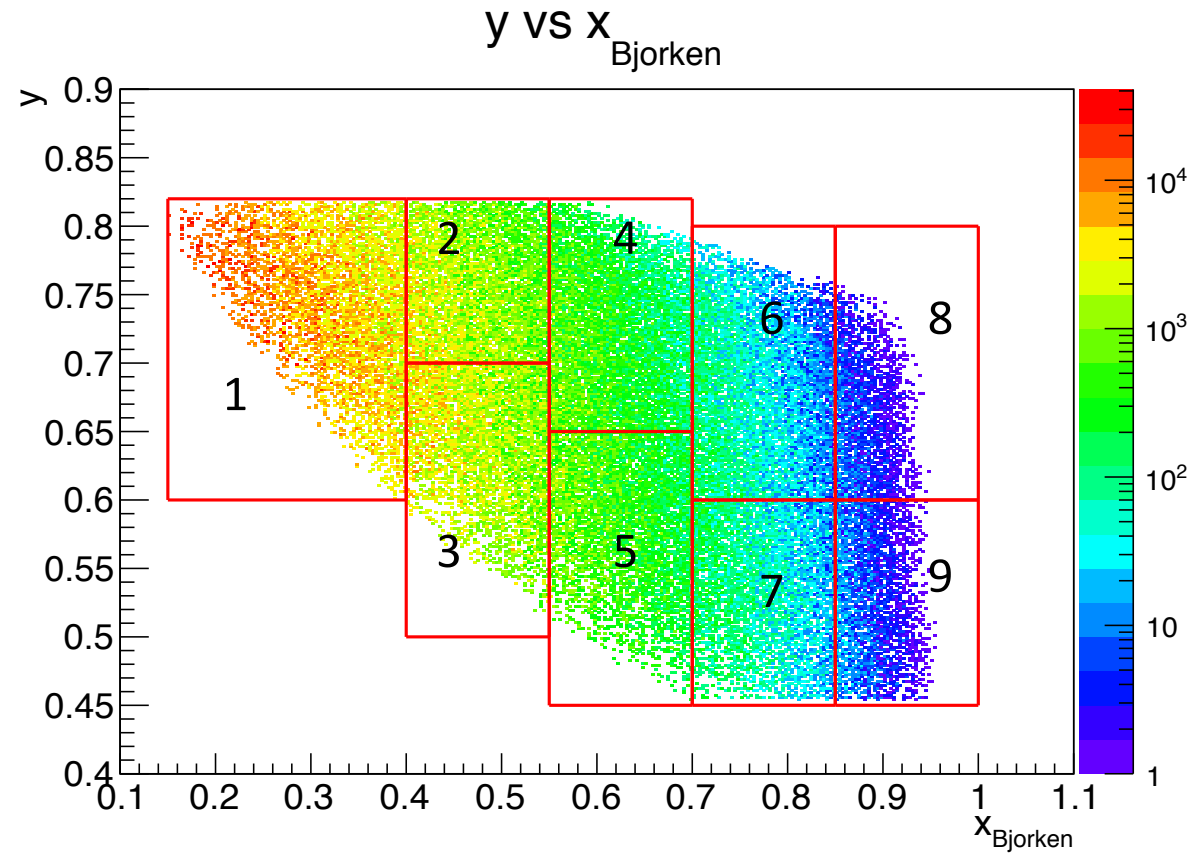
- Occupancy with 4 pedestal sigma cut (sigma = 20.7) and after noise rejection cut
- Depends on rejection algorithm and jitter level
- Number of strips for each readout plane:
 - 634 | 743 | 743 | 1195 | 1231
- Mean value of the raw occupancy (in %):
 - u plane: 9.4 | 5.0 | 4.2 | 2.1 | 2.1
 - v plane: 9.4 | 5.0 | 2.4 | 2.1 | 2.1

Background hit position on first tracker



Tracking Efficiency in X_{bjorken} and y Space

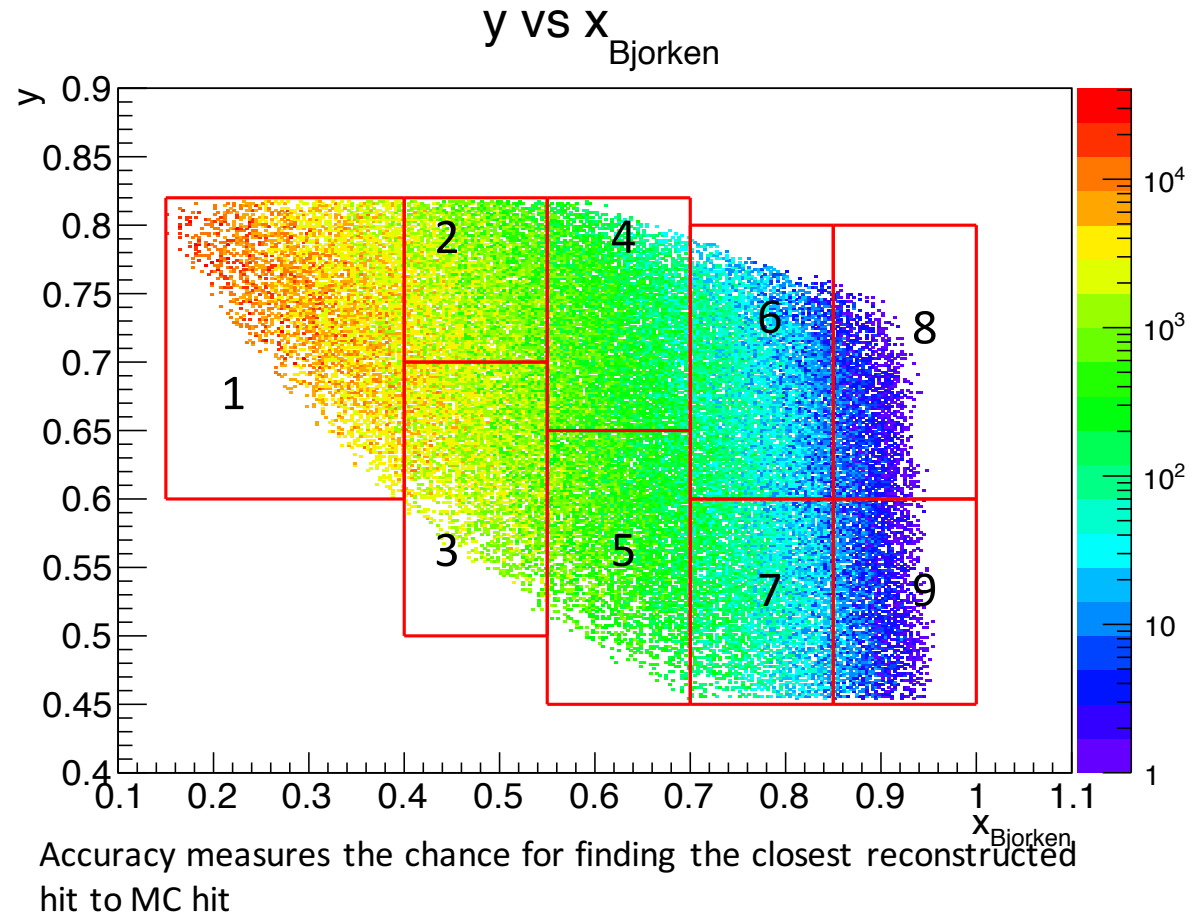
	zero	single	multi
1	14.3%	79.1%	6.7%
2	10.2%	84.5%	5.3%
3	15.4%	77.0%	7.6%
4	10.4%	84.3%	5.4%
5	15.1%	77.5%	7.4%
6	10.5%	83.9%	5.5%
7	15.0%	78.0%	7.0%
8	10.3%	85.0%	4.7%
9	14.5%	78.3%	7.2%



Tracking Accuracy in X_{bjorken} and y Space

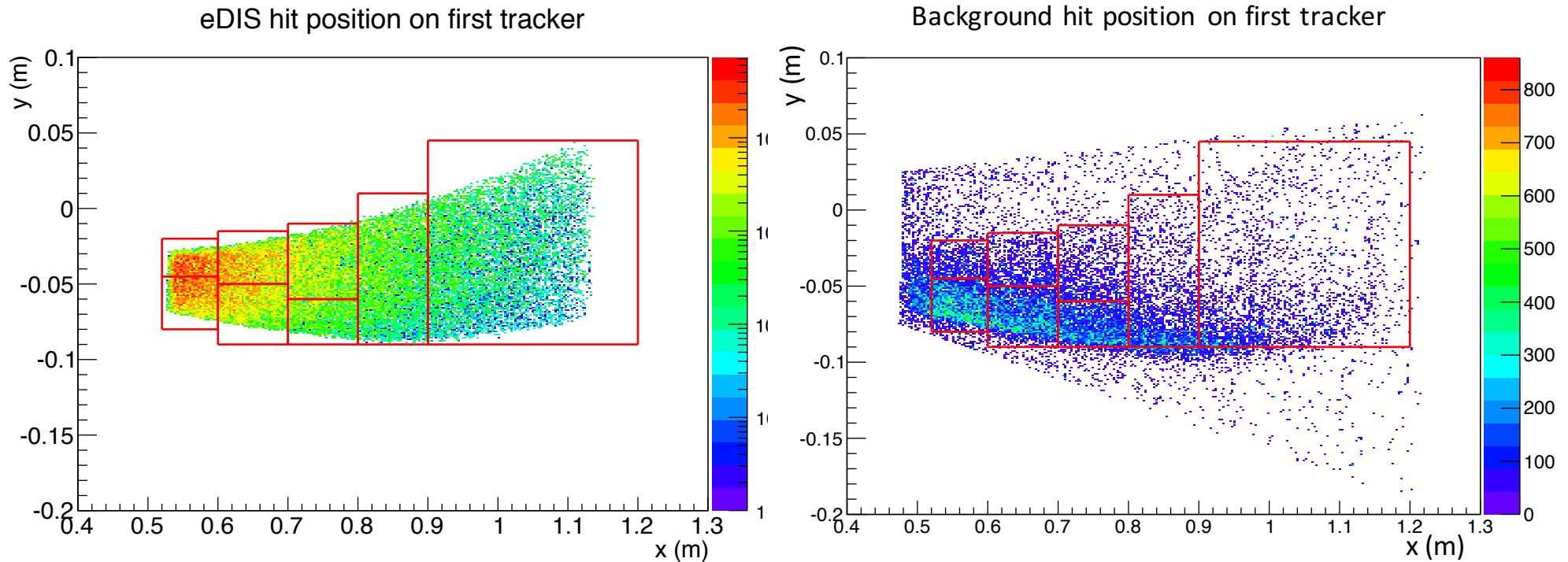
Single track events only

	No miss	Miss one	Miss more
1	79.2%	10.1%	10.7%
2	87.3%	5.1%	7.6%
3	79.1%	8.7%	12.2%
4	87.4%	4.5%	8.1%
5	79.4%	7.8%	12.9%
6	88.0%	3.8%	8.1%
7	78.8%	6.7%	14.5%
8	89.1%	2.9%	8.0%
9	79.4%	7.1%	13.5%



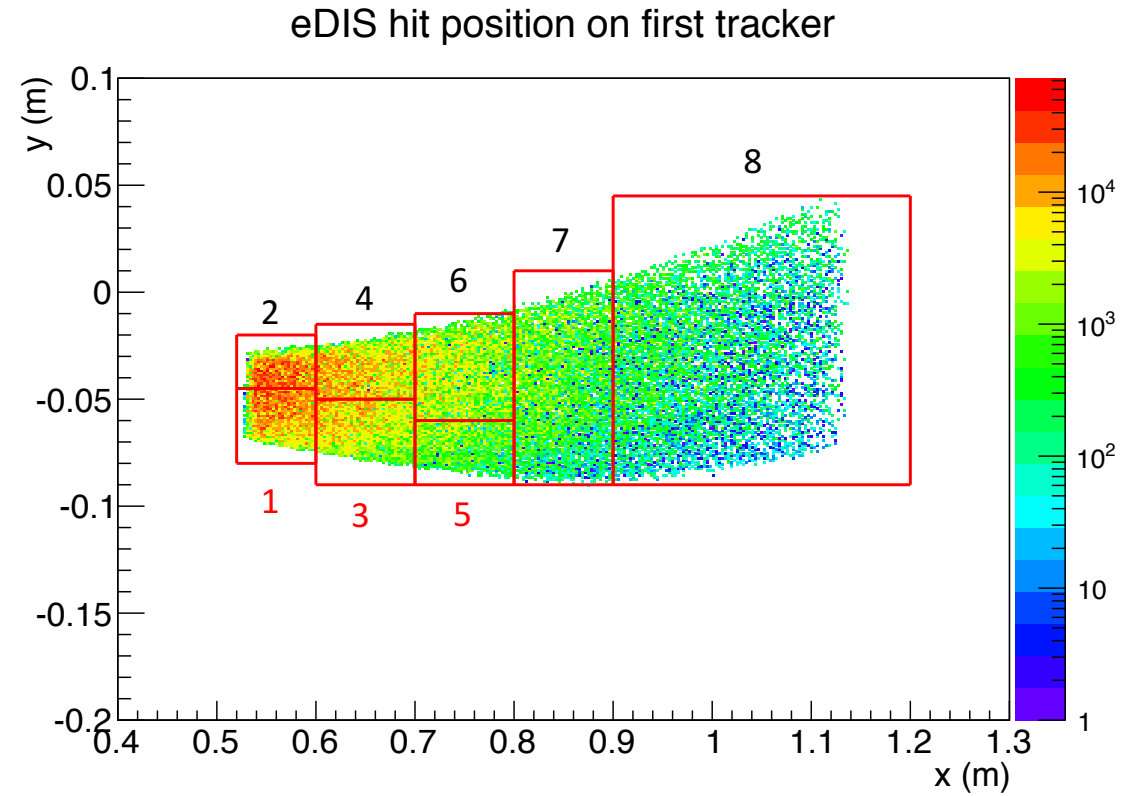
Tracking Efficiency in First Tracker

Divide the MC hits for signal electron on the first tracker into 8 regions, look at how the background hot spot can affect the tracks going into these regions



Tracking Efficiency in First Tracker

	zero	single	multi
1	20.3%	70.3%	9.4%
2	16.3%	79.1%	4.5%
3	11.6%	77.4%	11%
4	10.5%	84.2%	5.2%
5	11.8%	77.0%	11.2%
6	10.6%	84.8%	4.6%
7	9.3%	87.3%	3.5%
8	9.4%	88.1%	2.5%



Tracking Accuracy in First Tracker

	No miss	One miss	More miss
1	70%	13.5%	16.6%
2	82.4%	10.1%	7.5%
3	71.9%	9.1%	18.9%
4	85.1%	7.3%	7.6%
5	72.3%	9.4%	18.3%
6	87.6%	6.4%	6.1%
7	90.5%	4.6%	4.9%
8	93.4%	2.7%	3.9%

eDIS hit position on first tracker

