

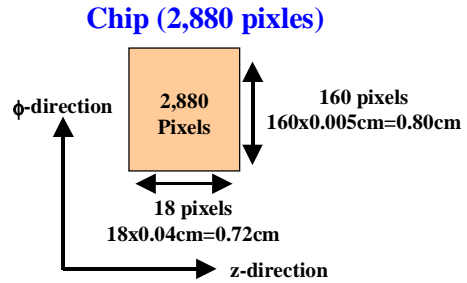
Preliminary PIX00 Results

Pixel:

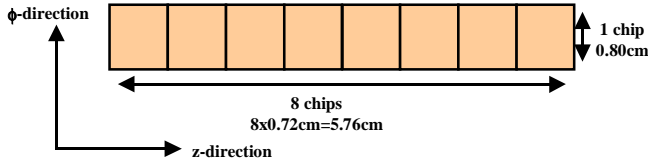
0.040 cm in z direction
 0.005 cm in ϕ direction
 300 μm = 0.03 cm thick

“Chip” (2,880 pixels):

18x0.04cm= 0.72 cm in z direction
 160x0.005cm= 0.80 cm in ϕ direction
 2,880 pixels (izpix=1,18; ifipix=1,160)



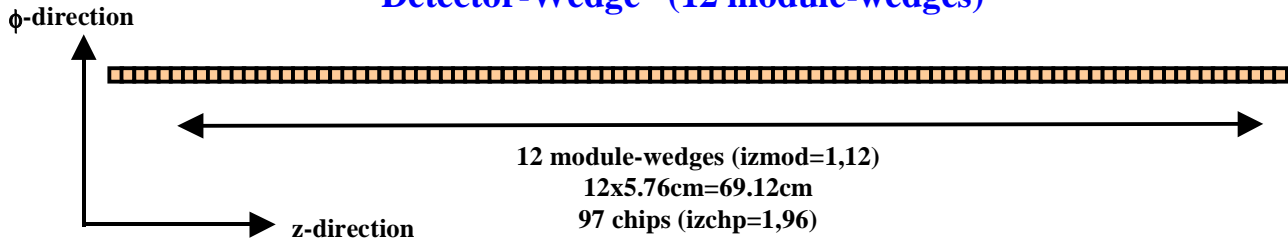
“Module-Wedge” (8 chips)



“Module-Wedge” (8 chips):

8x0.72cm= 5.76 cm in z direction
 1x0.80cm= 0.8 cm in ϕ direction

“Detector-Wedge” (12 module-wedges)

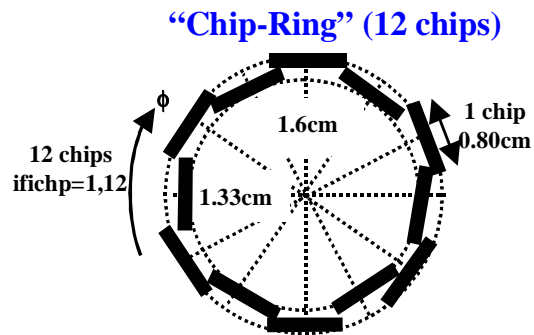


“Detector-Wedge” (12 module-wedges, 96 chips):

12x5.76cm= 69.12 cm in z direction
 1x0.80cm= 0.8 cm in ϕ direction
 12 modules (izmod=1,12)
 96 chips (izchp=1,96)

“Chip-Ring” (12 chips):

12 chips (ifichp=1,12)
 34,560 pixels (12x2,880)



“Module-Ring” (12 modules):

8 chip-rings
 96 chips (8x12)
 276,480 pixels (8x34,560)

Full Detector (12 detector-wedges):

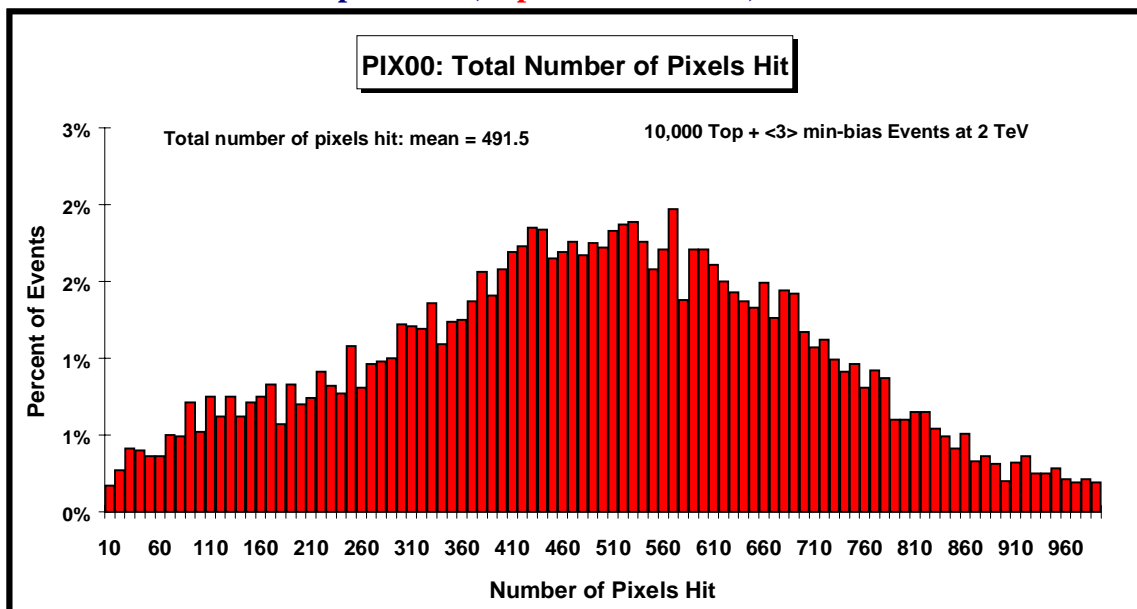
1,152 chips (izchp=1,96; ifichp=1,12)
 12 module-rings (izmod=1,12)
 3,317,760 pixels (12x26,480)
 (izchp=1,96; ifichp=1,12; izpix=1,18; ifipix=1,160)

Preliminary PIX00 Results

PIX00: 10,000 Top + <3> min-bias Events at 2 TeV		
	Average	Abs Max in Run
Number of Pixels Hit	491.5	1533 pixels
Number of Pixel Hits	491.9	1538 pixels
Pixel with Maximum Hits	1.26	4 hits
Chip with Maximum Hits	17.0	67 hits
Mod-Ring with Max Hits	181.6	611 hits
Number of Pixels with > 1 Hit	0.45	9 pixels
Hits/ Detected Track	3.0	10 hits

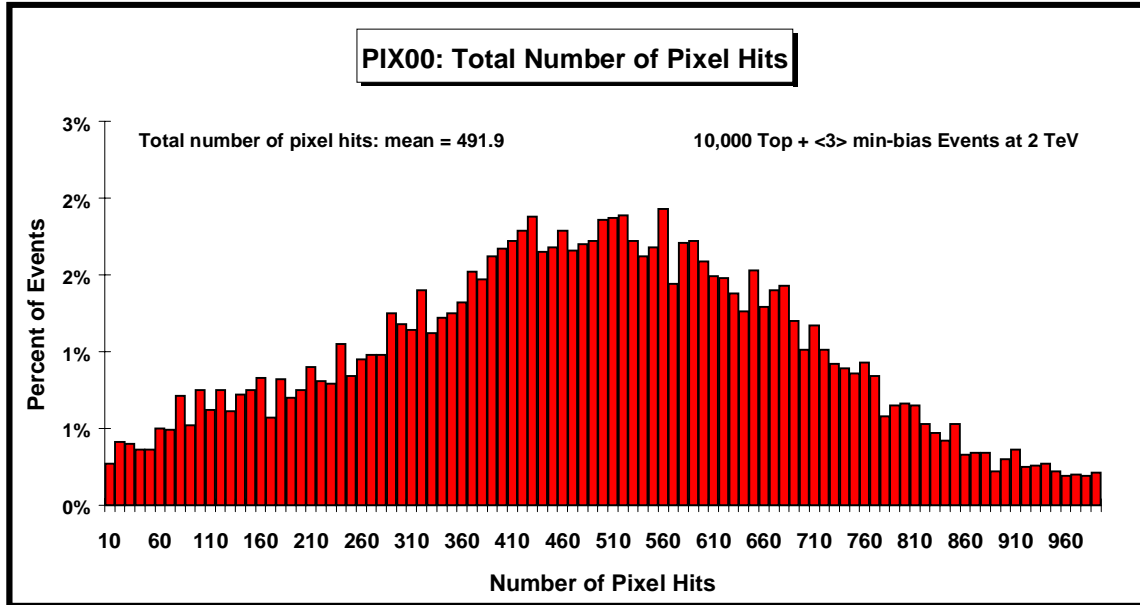
PIX00: 10,000 Top + <3> min-bias Events at 2 TeV				
izmod	Ave Pixels Hit/Tot Pixels	Ave Pixel Hits	Pixel with Max Hits Ave Hits/Abs Max Hits	Chip with Max Hits Ave Hits/Abs Max Hits
1	30.3 / 276,480	30.3	0.94 / 2	4.5 / 60
2	35.1 / 276,480	35.2	0.95 / 3	4.9 / 53
3	40.3 / 276,480	40.4	0.97 / 3	5.3 / 53
4	43.9 / 276,480	43.9	0.98 / 3	5.6 / 46
5	46.7 / 276,480	46.7	0.98 / 3	5.8 / 50
6	48.9 / 276,480	49.0	0.99 / 3	6.0 / 46
7	48.2 / 276,480	48.3	1.00 / 3	6.0 / 44
8	46.5 / 276,480	46.5	0.98 / 4	5.8 / 43
9	43.5 / 276,480	43.5	0.98 / 3	5.6 / 55
10	40.5 / 276,480	40.5	0.97 / 3	5.3 / 54
11	36.1 / 276,480	36.1	0.96 / 2	4.9 / 63
12	31.5 / 276,480	31.6	0.94 / 3	4.5 / 67
all	491.5 / 3,317,760	491.9	1.26 / 4	17.0 / 67

PIX00: Total number of pixels hit (Top + <3> min-bias)

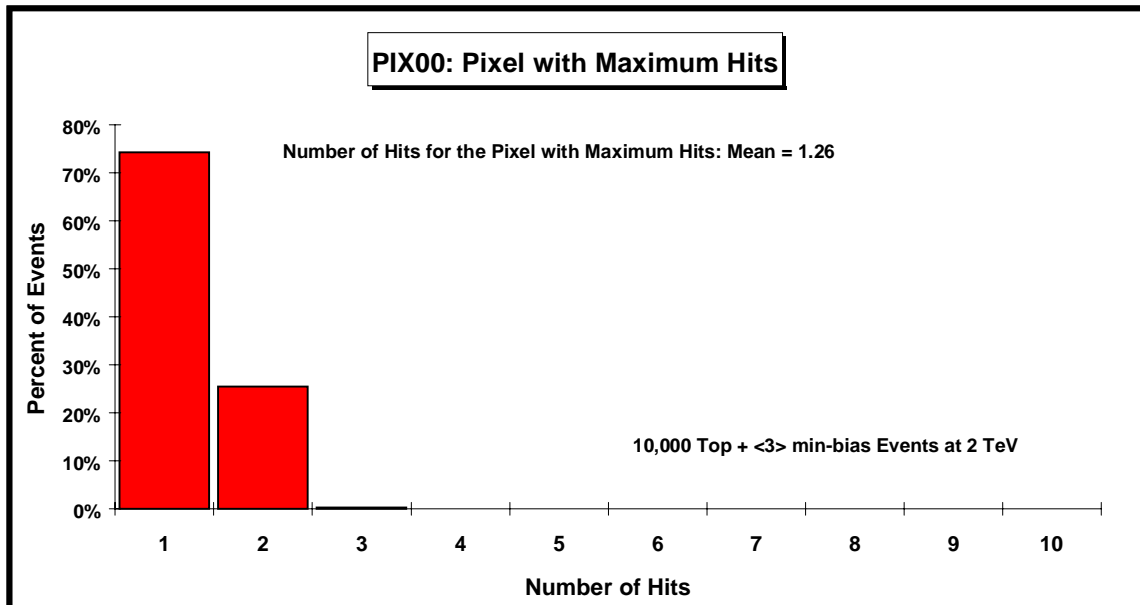


Preliminary PIX00 Results

PIX00: Total number of pixel hits (Top + <3> min-bias)

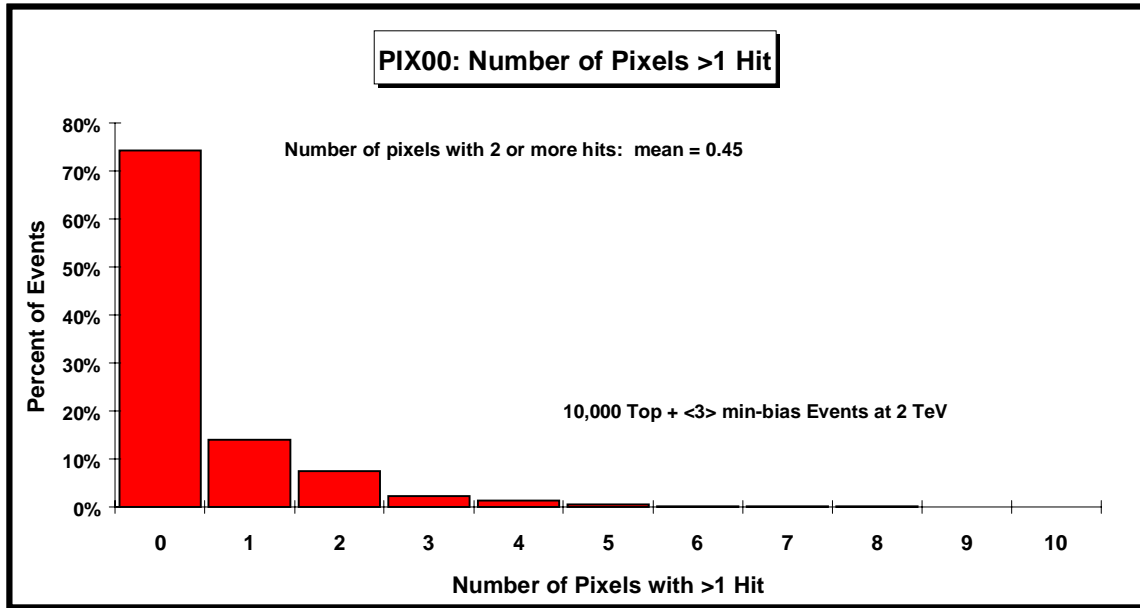


PIX00: Pixel with maximum hits (Top + <3> min-bias)

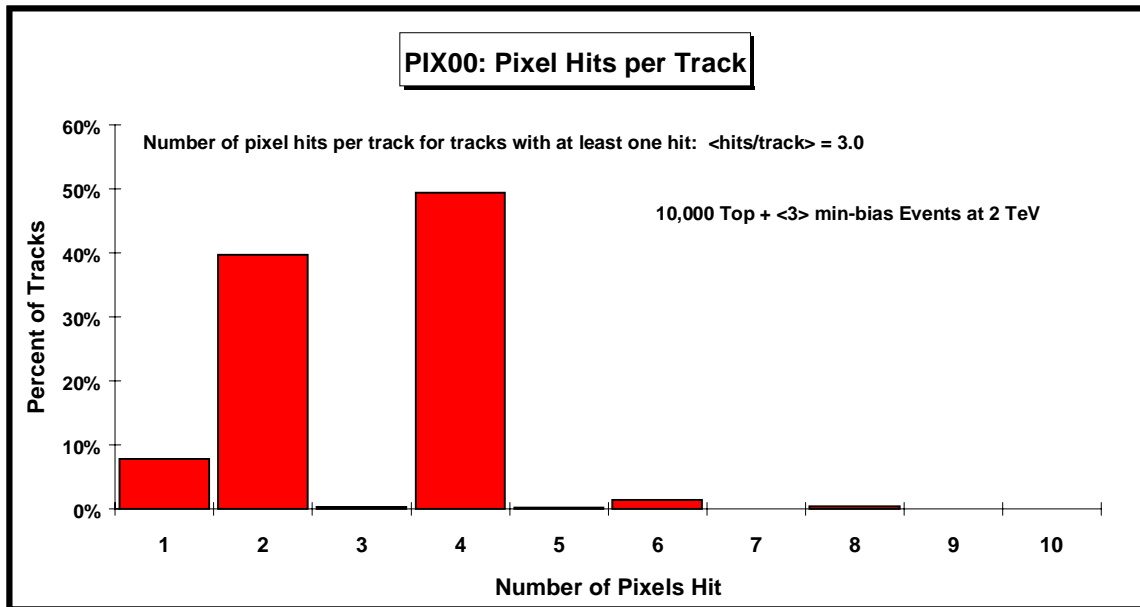


Preliminary PIX00 Results

PIX00: Number of pixels with 2 or more hits (Top + <3> min-bias)

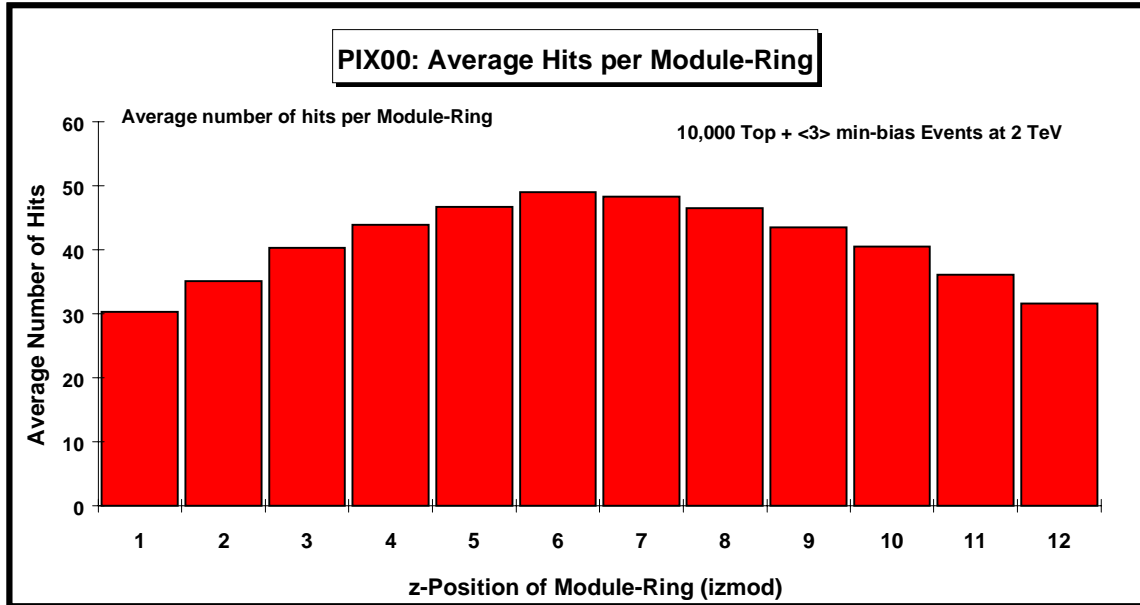


PIX00: Number of pixel hits per track for tracks with at least one hit



Preliminary PIX00 Results

PIX00: Total number of hits per module-ring (izmod=1,12)

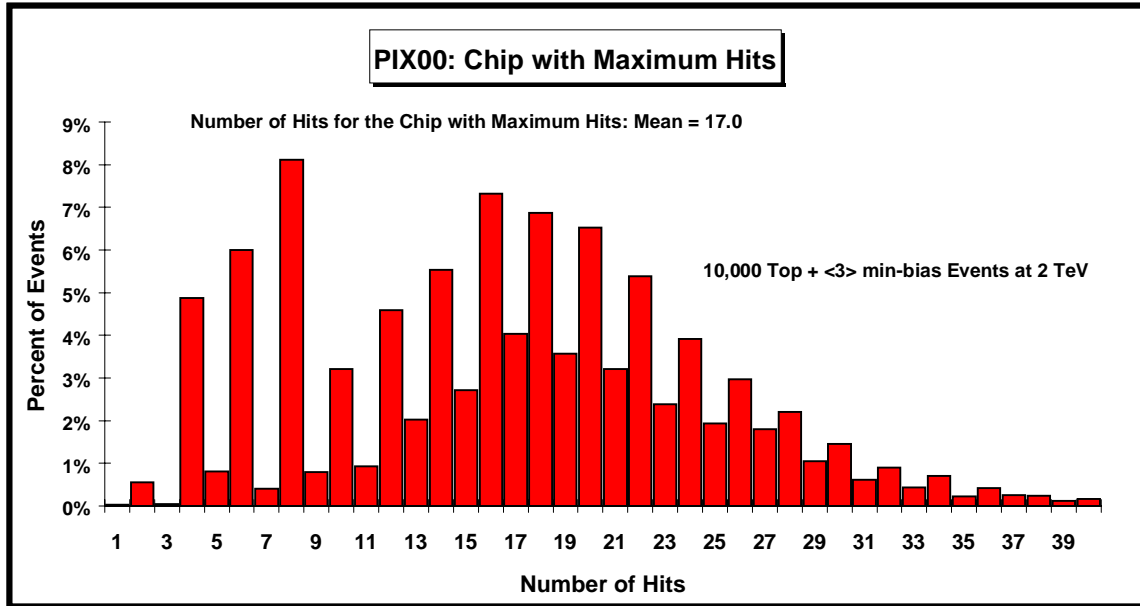


PIX00: Chip with max hits per module-ring (izmod=1,12)

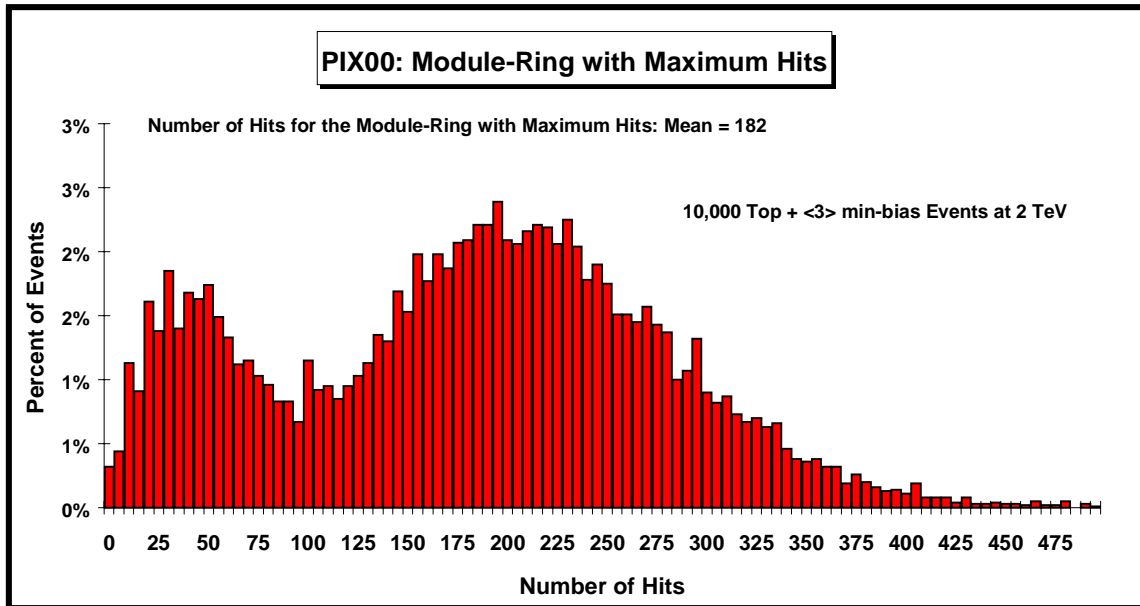


Preliminary PIX00 Results

PIX00: Chip with maximum hits (Top + <3> min-bias)



PIX00: Module-Ring with maximum hits (Top + <3> min-bias)

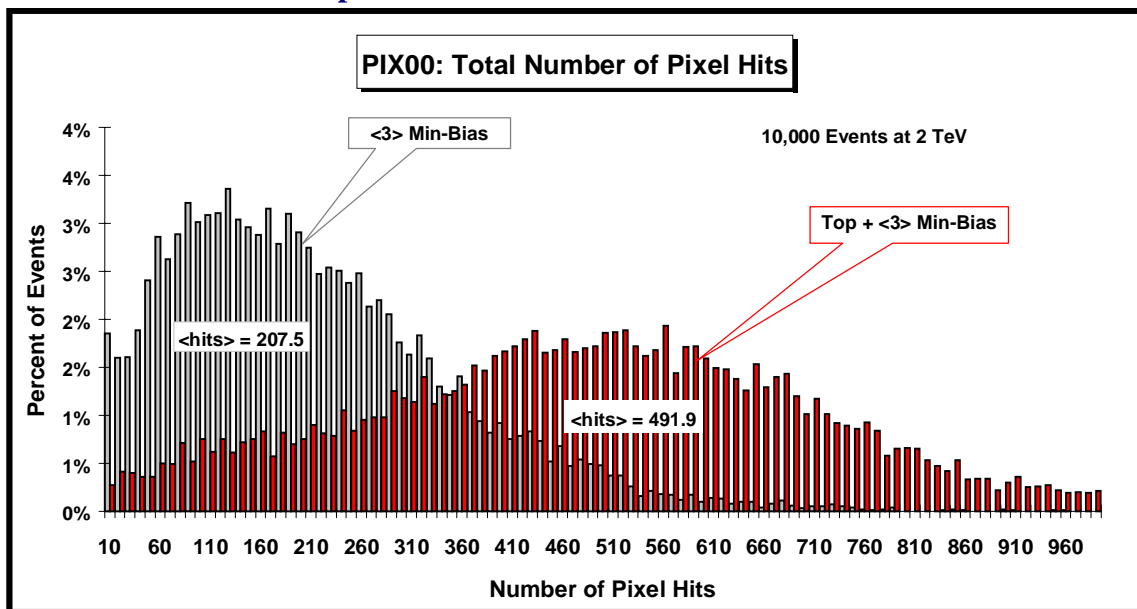


Preliminary PIX00 Results

PIX00: 10,000 $\langle 3 \rangle$ Min-Bias Events at 2 TeV		
	Average	Abs Max in Run
Number of Pixels Hit	207.5	951 pixels
Number of Pixel Hits	207.5	951 pixels
Pixel with Maximum Hits	1.00	2 hits
Chip with Maximum Hits	6.4	18 hits
Mod-Ring with Max Hits	47.4	251 hits
Number of Pixels with > 1 Hit	0.02	4 pixels
Hits/ Detected Track	3.2	10 hits

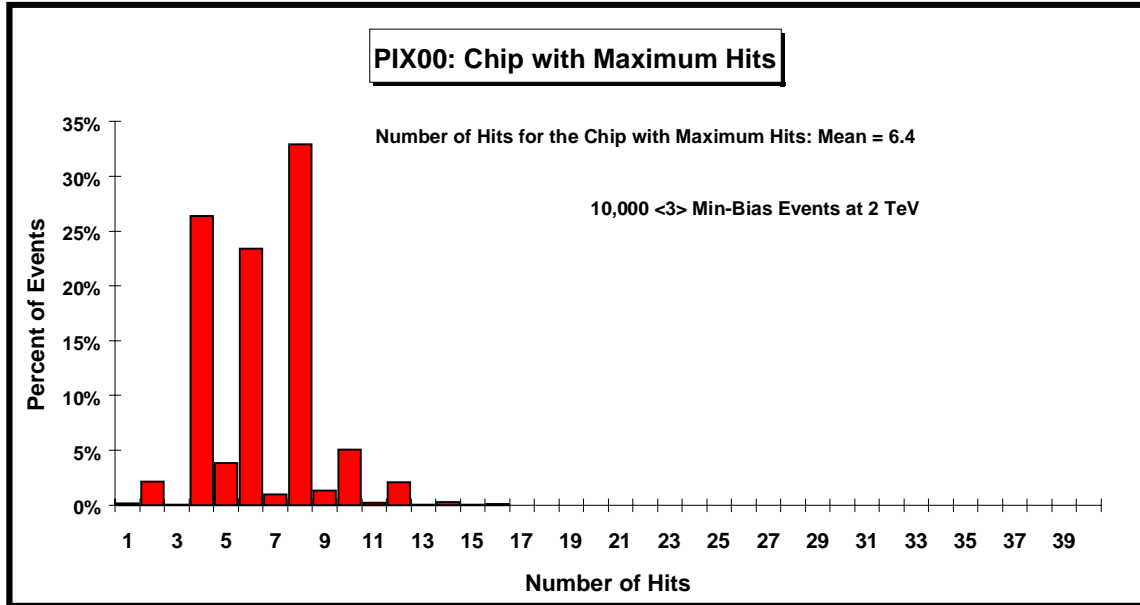
PIX00: 10,000 $\langle 3 \rangle$ Min-Bias Events at 2 TeV				
izmod	Ave Pixels Hit/Tot Pixels	Ave Pixel Hits	Pixel with Max Hits Ave Hits/Abs Max Hits	Chip with Max Hits Ave Hits/Abs Max Hits
1	13.6 / 276,480	13.6	0.82 / 2	2.9 / 14
2	15.3 / 276,480	15.3	0.84 / 2	3.1 / 14
3	16.9 / 276,480	16.9	0.86 / 2	3.3 / 16
4	18.4 / 276,480	18.4	0.87 / 2	3.4 / 16
5	19.3 / 276,480	19.3	0.88 / 2	3.5 / 16
6	19.7 / 276,480	19.7	0.88 / 2	3.6 / 16
7	20.0 / 276,480	20.0	0.89 / 2	3.6 / 14
8	19.6 / 276,480	19.6	0.88 / 2	3.5 / 14
9	18.5 / 276,480	18.5	0.87 / 2	3.4 / 14
10	17.2 / 276,480	17.2	0.86 / 2	3.3 / 16
11	15.6 / 276,480	15.6	0.84 / 2	3.1 / 18
12	13.6 / 276,480	13.6	0.82 / 2	2.8 / 16
all	207.5 / 3,317,760	207.5	1.00 / 2	6.4 / 18

PIX00: Total number of pixel hits

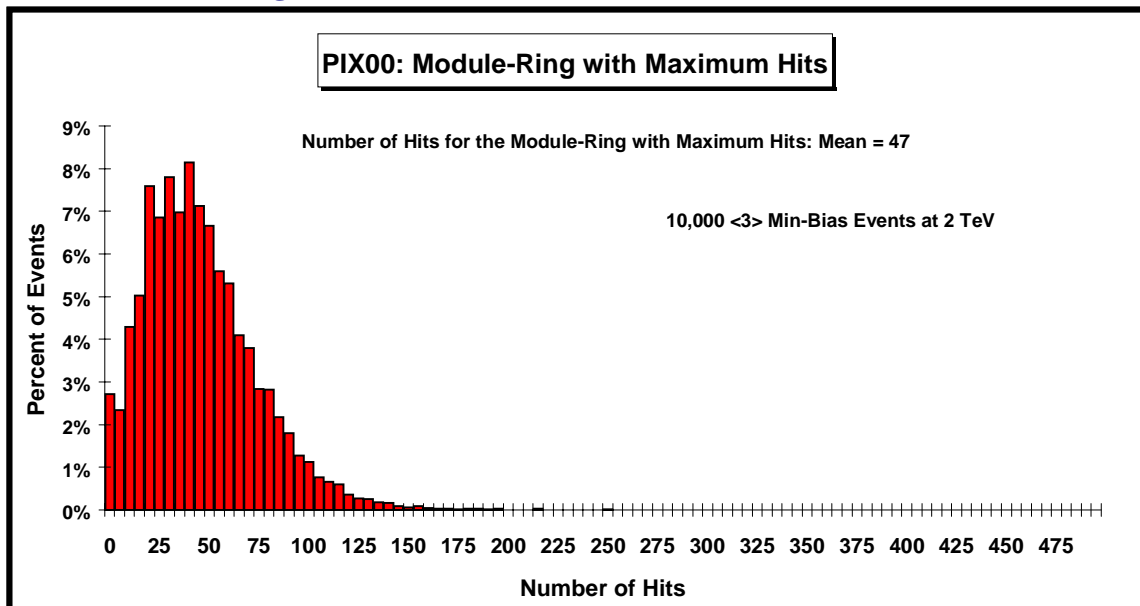


Preliminary PIX00 Results

PIX00: Chip with maximum hits (<3> min-bias)

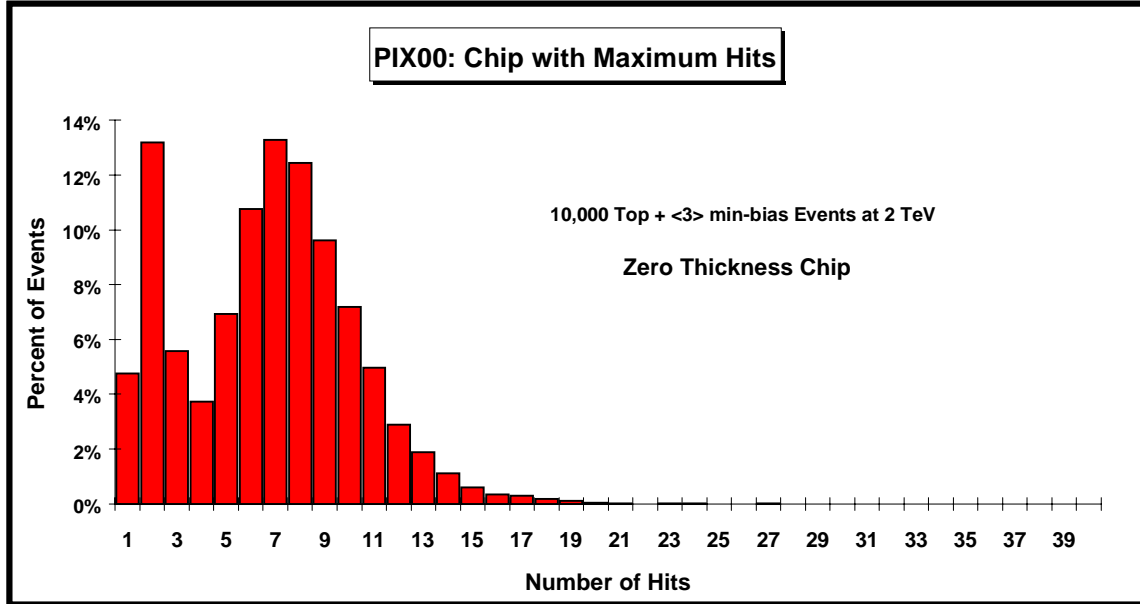


PIX00: Module-Ring with maximum hits (<3> min-bias)



Preliminary PIX00 Results

PIX00: Chip with maximum hits (Top + <3> min-bias, zero thickness)



PIX00: Chip with maximum hits (<3> min-bias, zero thickness)

