

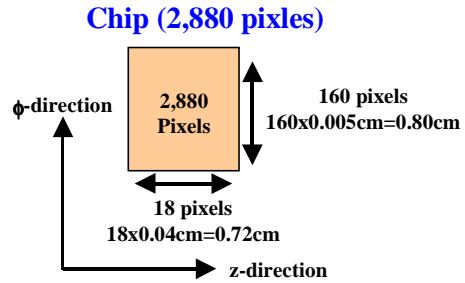
## Preliminary PIX00 Results

### Pixel:

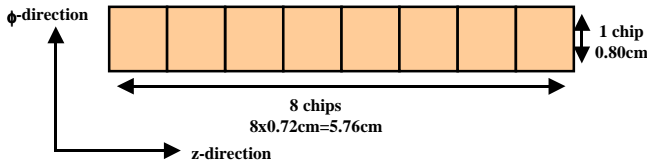
0.040 cm in z direction  
 0.005 cm in  $\phi$  direction  
 300  $\mu\text{m}$  = 0.03 cm thick

### “Chip” (2,880 pixels):

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



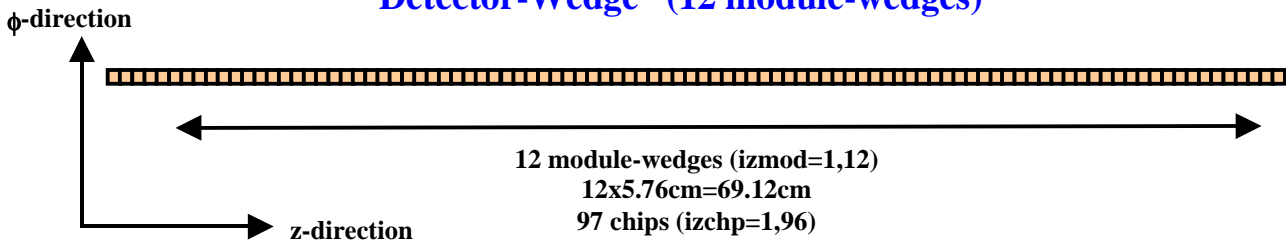
### “Module-Wedge” (8 chips)



### “Module-Wedge” (8 chips):

8x0.72cm= 5.76 cm in z direction  
 1x0.80cm= 0.8 cm in  $\phi$  direction

### “Detector-Wedge” (12 module-wedges)



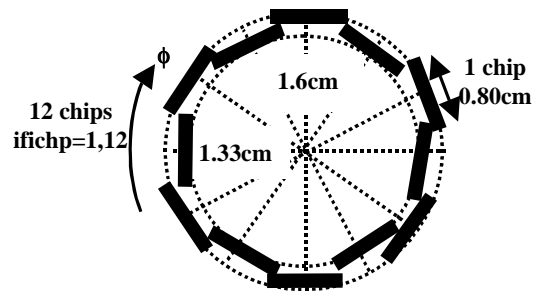
### “Detector-Wedge” (12 module-wedges, 96 chips):

12x5.76cm= 69.12 cm in z direction  
 1x0.80cm= 0.8 cm in  $\phi$  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)

### “Chip-Ring” (12 chips)



### “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)

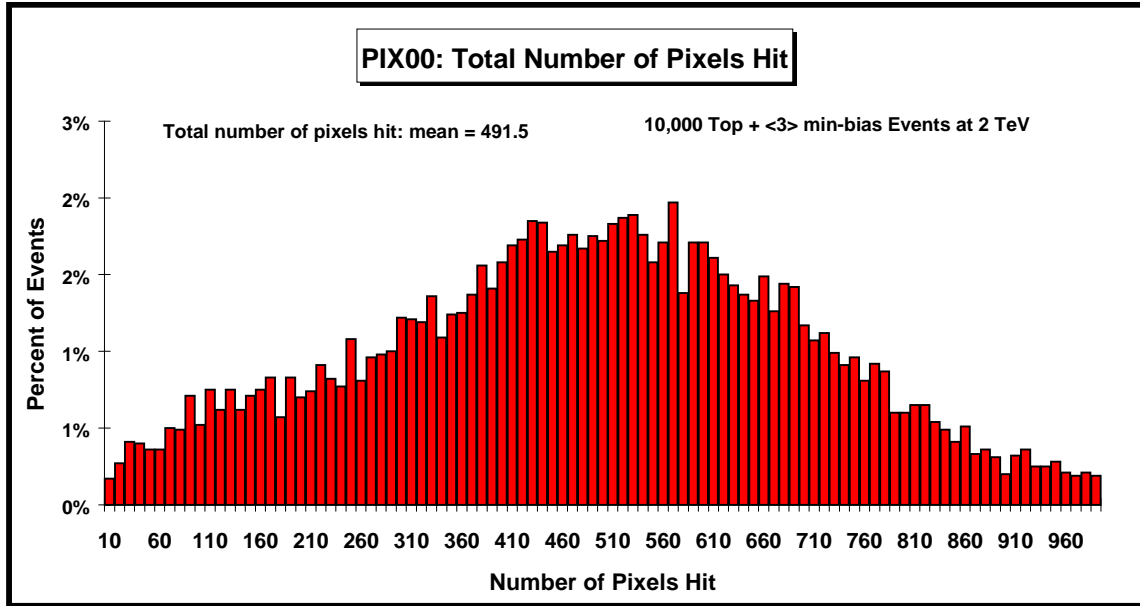
## Preliminary PIX00 Results

<b>PIX00: 10,000 Top + &lt;3&gt; min-bias Events at 2 TeV</b>		
	Average	Abs Max in Run
Number of Pixels Hit	491.5	1533 pixels/3,317,760 pixels
Number of Pixel Hits	491.9	1538 pixels/3,317,760 pixels
Pixel wth Maximum Hits	1.26	4 hits/1 pixel
Chip with Maximum Hits	17.0	67 hits/2,880 pixels
Mod-Wedge with Max Hits	34.6	107 hits/23,040 pixels
Mod-Ring with Max Hits	181.6	611 hits/276,480 pixels
Number of Pixels with > 1 Hit	0.45	9 pixels/3,317,760 pixels
Hits/ Detected Track	3.0	10 hits/1 Track

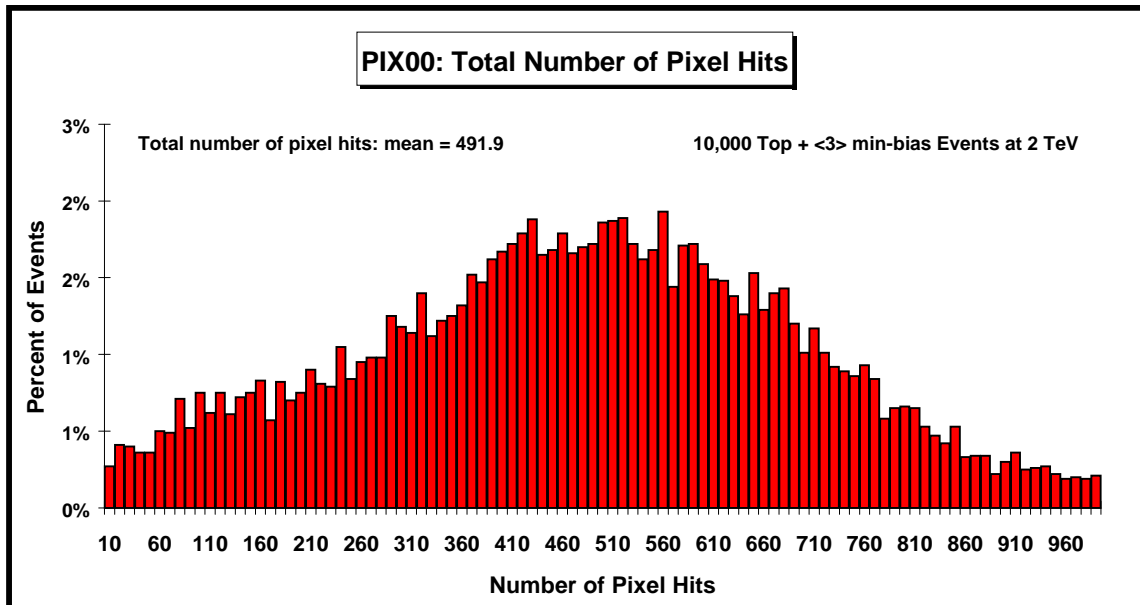
<b>PIX00: 10,000 Top + &lt;3&gt; min-bias Events at 2 TeV</b>					<b>Module-Wedge with Max Hits</b>
	Ave Pixels Hit/Tot Pixels	Ave Pixel Hits	Pixel with Max Hits Ave Hits/Abs Max Hits	Chip with Max Hits Ave Hits/Abs Max Hits	Ave Hits/Abs Max Hits
<b>1</b>	30.3 / 276,480	30.3	0.94 / 2	4.5 / 60	8.0 / 90
<b>2</b>	35.1 / 276,480	35.2	0.95 / 3	4.9 / 53	8.9 / 97
<b>3</b>	40.3 / 276,480	40.4	0.97 / 3	5.3 / 53	9.7 / 89
<b>4</b>	43.9 / 276,480	43.9	0.98 / 3	5.6 / 46	10.4 / 107
<b>5</b>	46.7 / 276,480	46.7	0.98 / 3	5.8 / 50	10.9 / 98
<b>6</b>	48.9 / 276,480	49.0	0.99 / 3	6.0 / 46	11.3 / 92
<b>7</b>	48.2 / 276,480	48.3	1.00 / 3	6.0 / 44	11.2 / 106
<b>8</b>	46.5 / 276,480	46.5	0.98 / 4	5.8 / 43	10.9 / 99
<b>9</b>	43.5 / 276,480	43.5	0.98 / 3	5.6 / 55	10.4 / 98
<b>10</b>	40.5 / 276,480	40.5	0.97 / 3	5.3 / 54	9.8 / 85
<b>11</b>	36.1 / 276,480	36.1	0.96 / 2	4.9 / 63	9.0 / 97
<b>12</b>	31.5 / 276,480	31.6	0.94 / 3	4.5 / 67	8.1 / 83
<b>all</b>	<b>491.5 / 3,317,760</b>	<b>491.9</b>	<b>1.26 / 4</b>	<b>17.0 / 67</b>	<b>34.6 / 107</b>

## Preliminary PIX00 Results

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

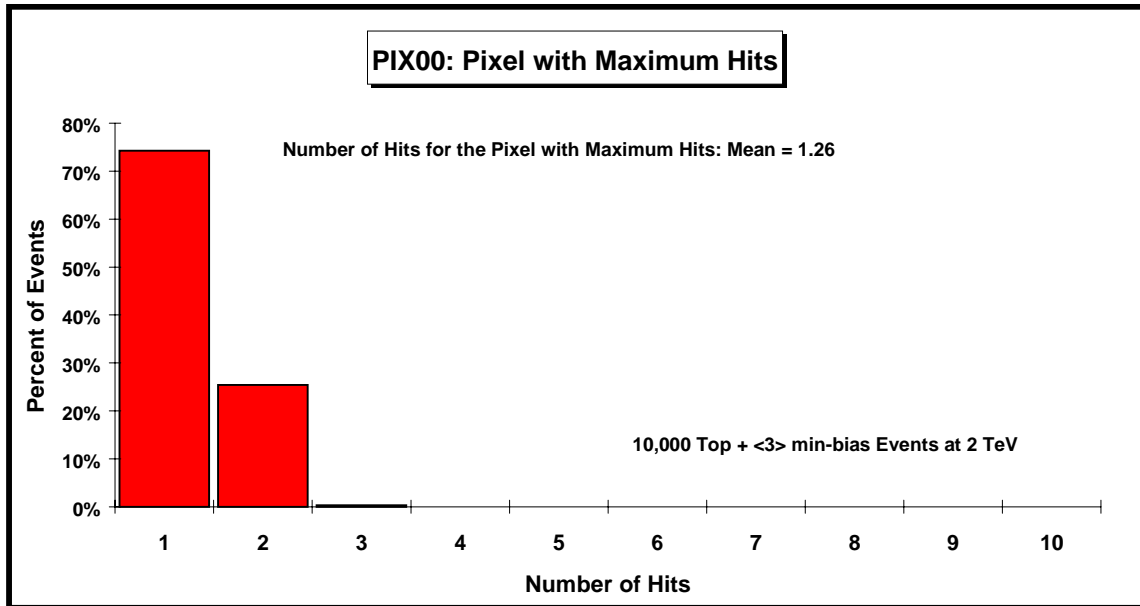


PIX00: Total number of pixel hits (Top + <3> min-bias)

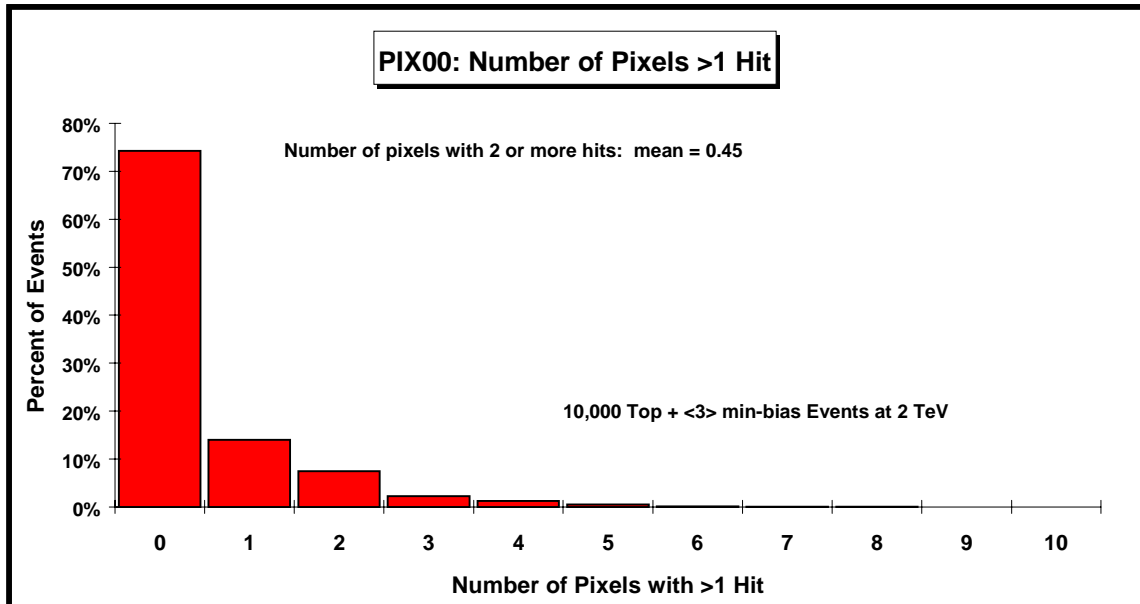


## Preliminary PIX00 Results

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

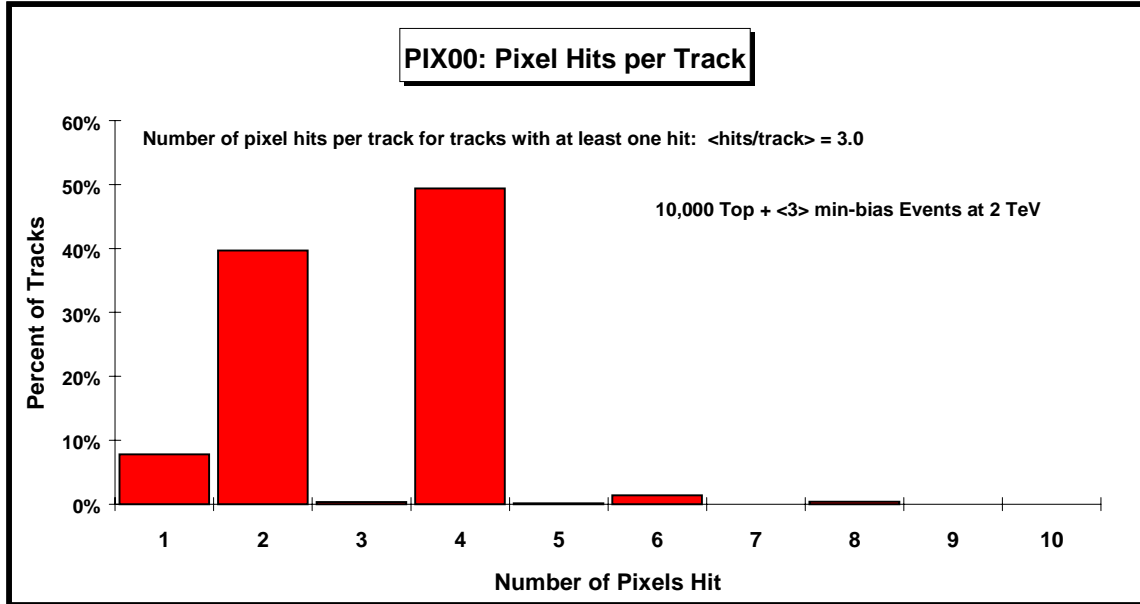


PIX00: Number of pixels with 2 or more hits (**Top** + **<3>** min-bias)

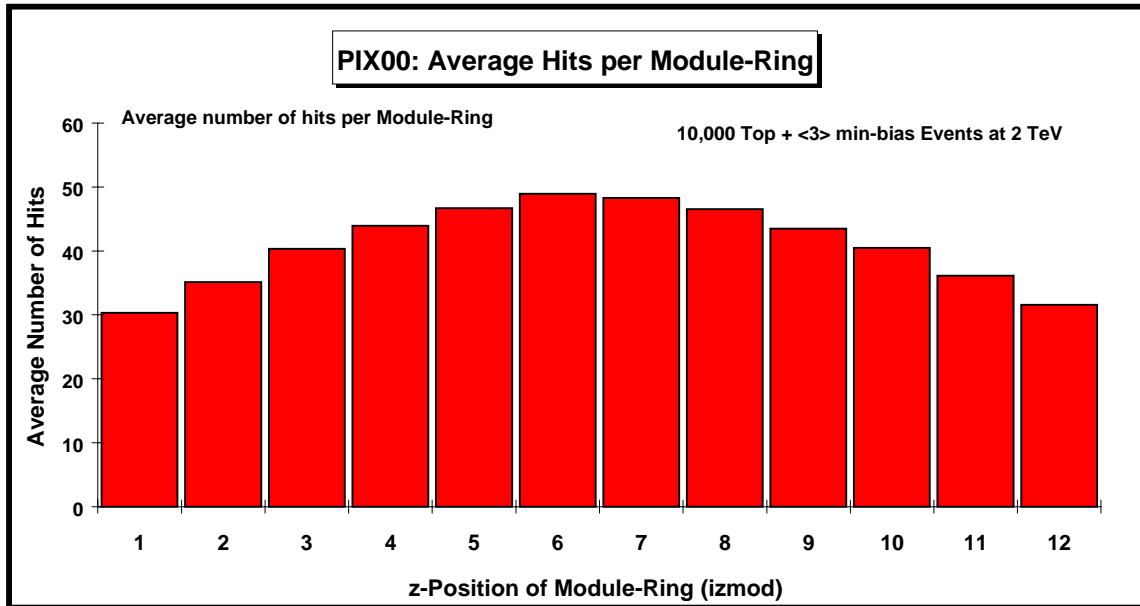


## Preliminary PIX00 Results

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

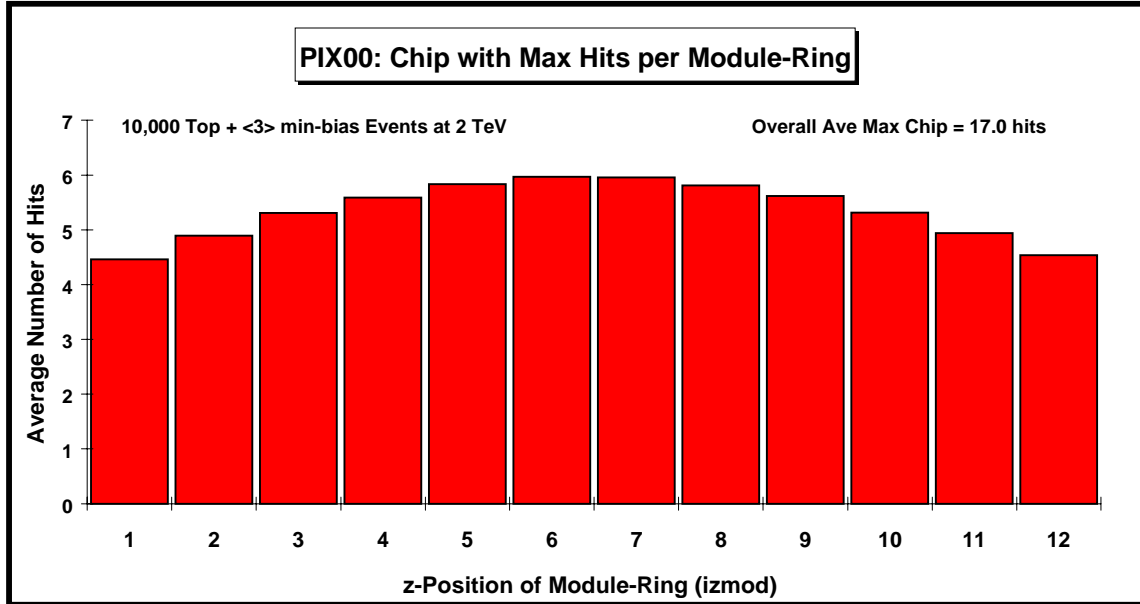


**PIX00: Total number of hits per module-ring (izmod=1,12)**

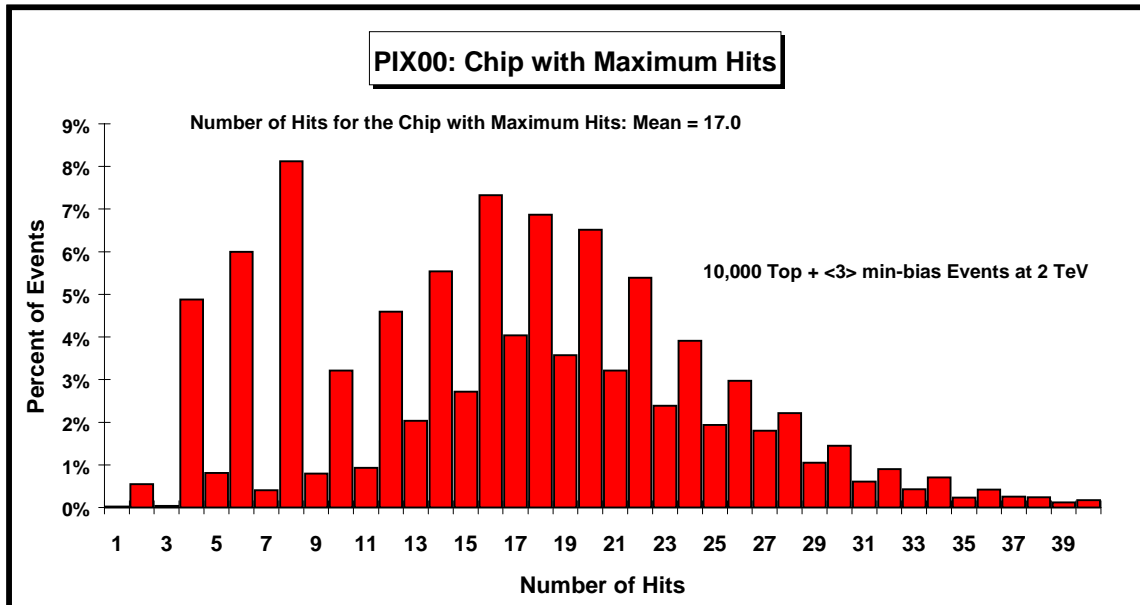


# Preliminary PIX00 Results

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

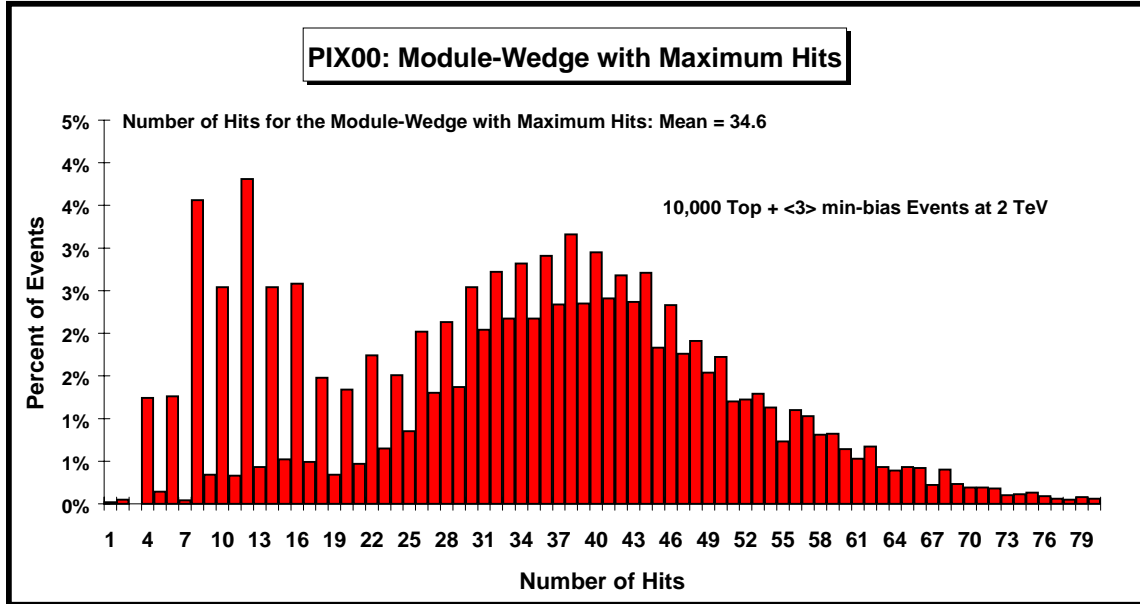


## PIX00: Chip with maximum hits (Top + <3> min-bias)

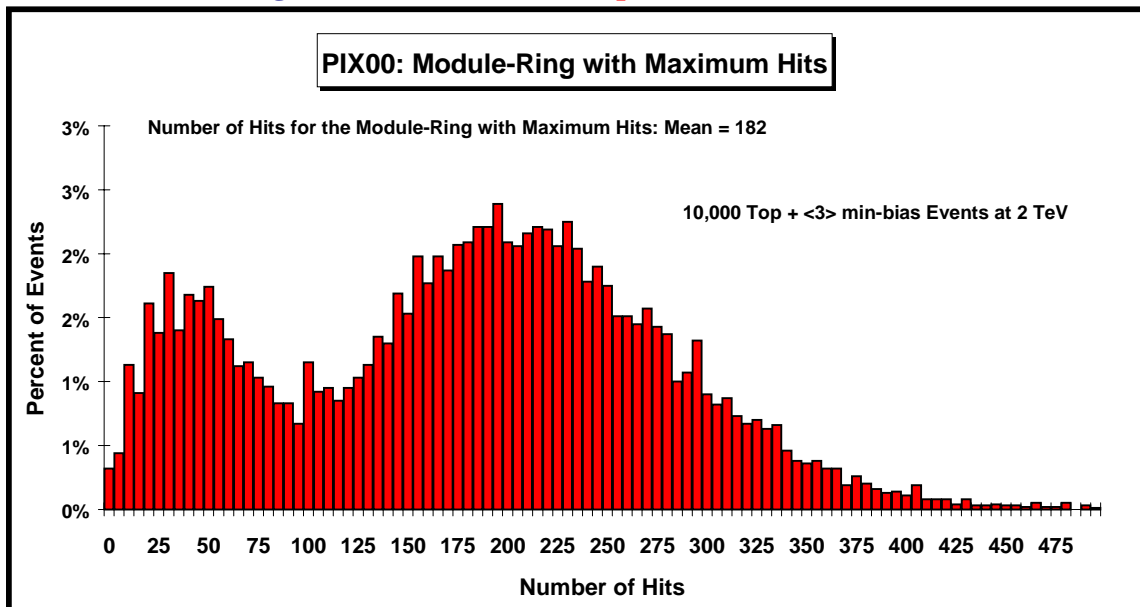


# Preliminary PIX00 Results

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



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



## Preliminary PIX00 Results

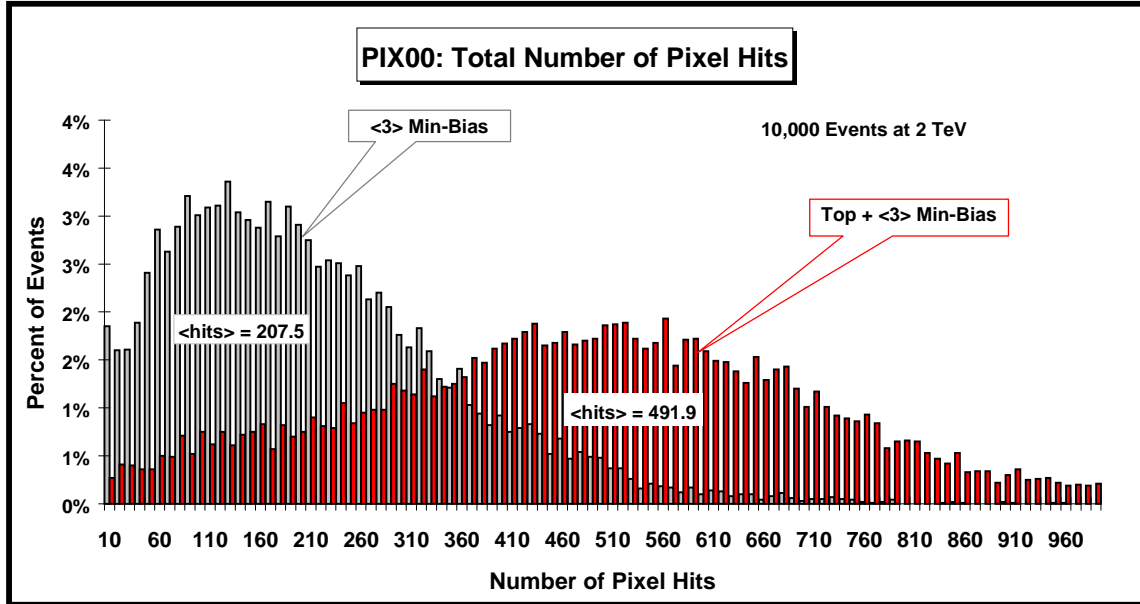
PIX00: 10,000 <3> Min-Bias Events at 2 TeV		
	Average	Abs Max in Run
Number of Pixels Hit	207.5	951 pixels/3,317,760
Number of Pixel Hits	207.5	951 pixels/3,317,760
Pixel with Maximum Hits	1.00	2 hits/1 pixel
Chip with Maximum Hits	6.4	18 hits/2,880 pixels
Mod-Wedge with Max Hits	11.6	40 hits/23,040 pixels
Mod-Ring with Max Hits	47.4	251 hits/276,480
Number of Pixels with > 1 Hit	0.02	4 pixels/3,317,760 pixels
Hits/ Detected Track	3.0	10 hits/1 Track

PIX00: 10,000 <3> Min-Bias Events at 2 TeV					Mod-Wedge with Max Hits
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	Ave Hits/Abs Max Hits
1	13.6 / 276,480	13.6	0.82 / 2	2.9 / 14	4.6 / 32
2	15.3 / 276,480	15.3	0.84 / 2	3.1 / 14	5.0 / 27
3	16.9 / 276,480	16.9	0.86 / 2	3.3 / 16	5.3 / 36
4	18.4 / 276,480	18.4	0.87 / 2	3.4 / 16	5.6 / 34
5	19.3 / 276,480	19.3	0.88 / 2	3.5 / 16	5.8 / 32
6	19.7 / 276,480	19.7	0.88 / 2	3.6 / 16	5.9 / 33
7	20.0 / 276,480	20.0	0.89 / 2	3.6 / 14	5.9 / 38
8	19.6 / 276,480	19.6	0.88 / 2	3.5 / 14	5.8 / 36
9	18.5 / 276,480	18.5	0.87 / 2	3.4 / 14	5.6 / 31
10	17.2 / 276,480	17.2	0.86 / 2	3.3 / 16	5.3 / 34
11	15.6 / 276,480	15.6	0.84 / 2	3.1 / 18	5.0 / 40
12	13.6 / 276,480	13.6	0.82 / 2	2.8 / 16	4.6 / 29
<b>all</b>	<b>207.5 / 3,317,760</b>	<b>207.5</b>	<b>1.00 / 2</b>	<b>6.4 / 18</b>	<b>11.6 / 40</b>

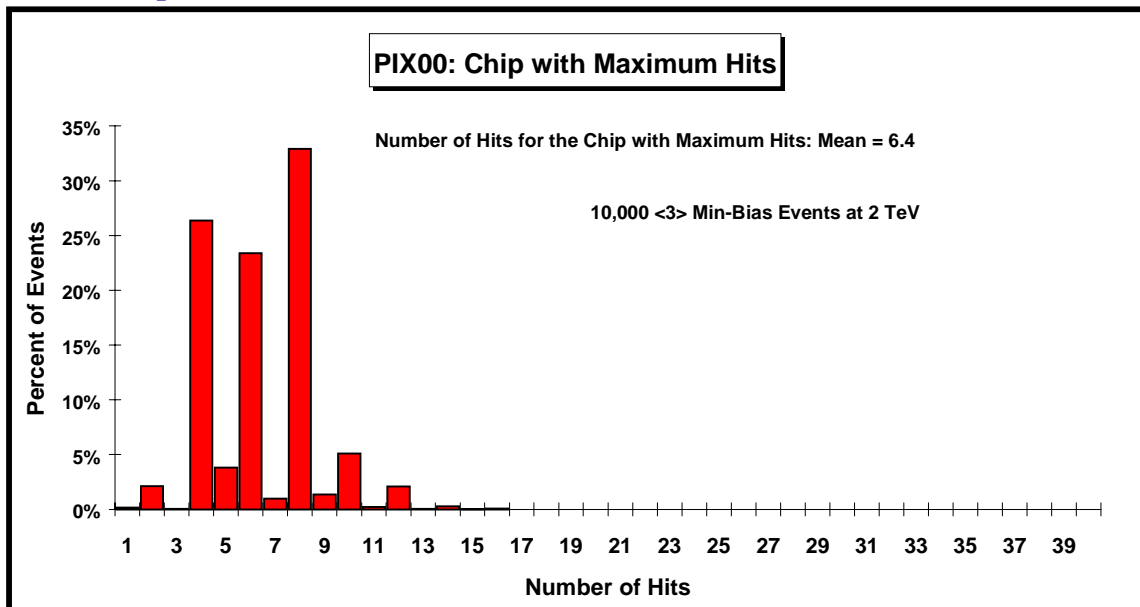


# Preliminary PIX00 Results

## PIX00: Total number of pixel hits

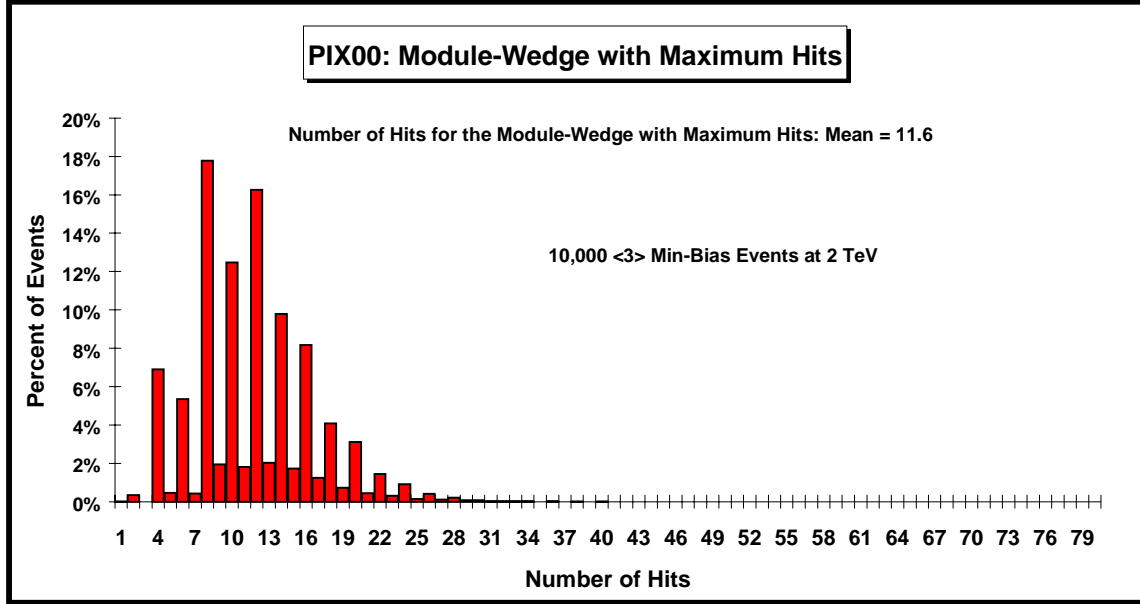


## PIX00: Chip with maximum hits ( $\langle 3 \rangle$ min-bias)

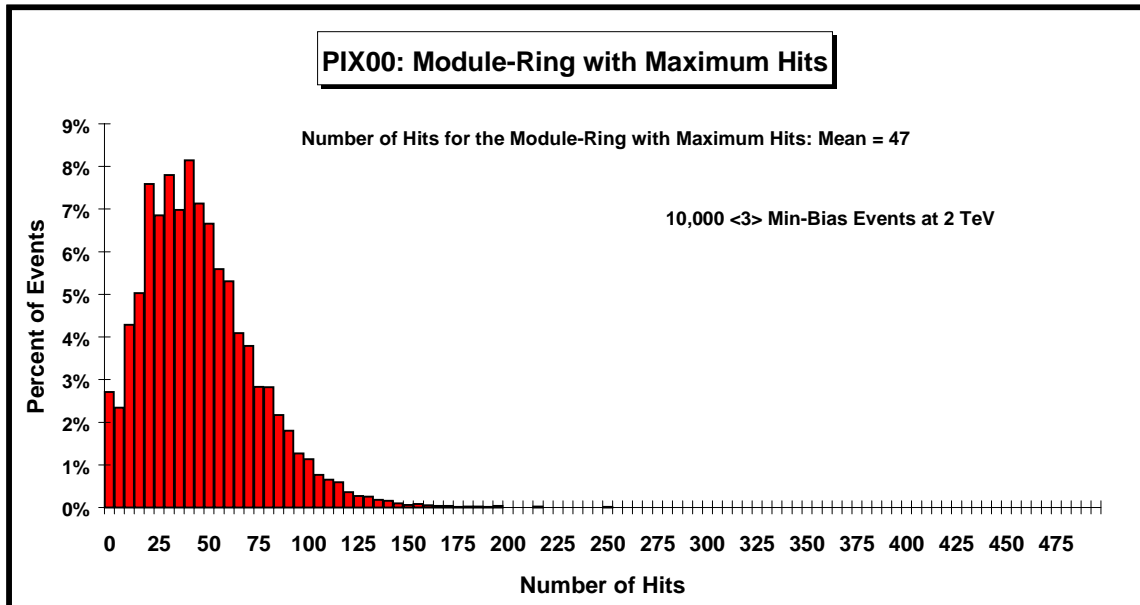


# Preliminary PIX00 Results

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

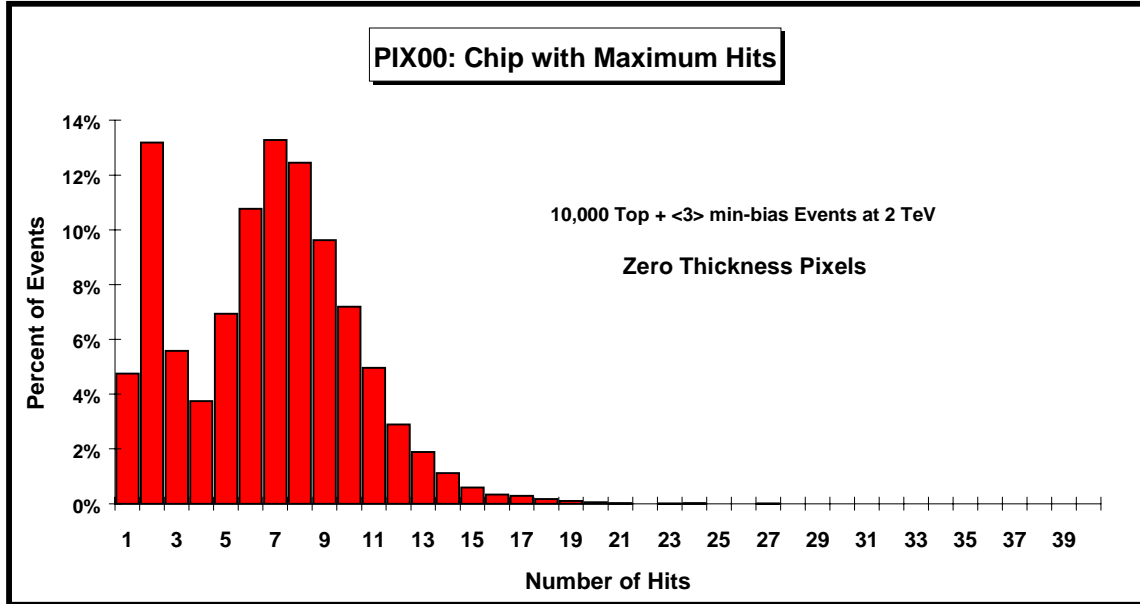


## PIX00: Module-Ring with maximum hits (<3> min-bias)

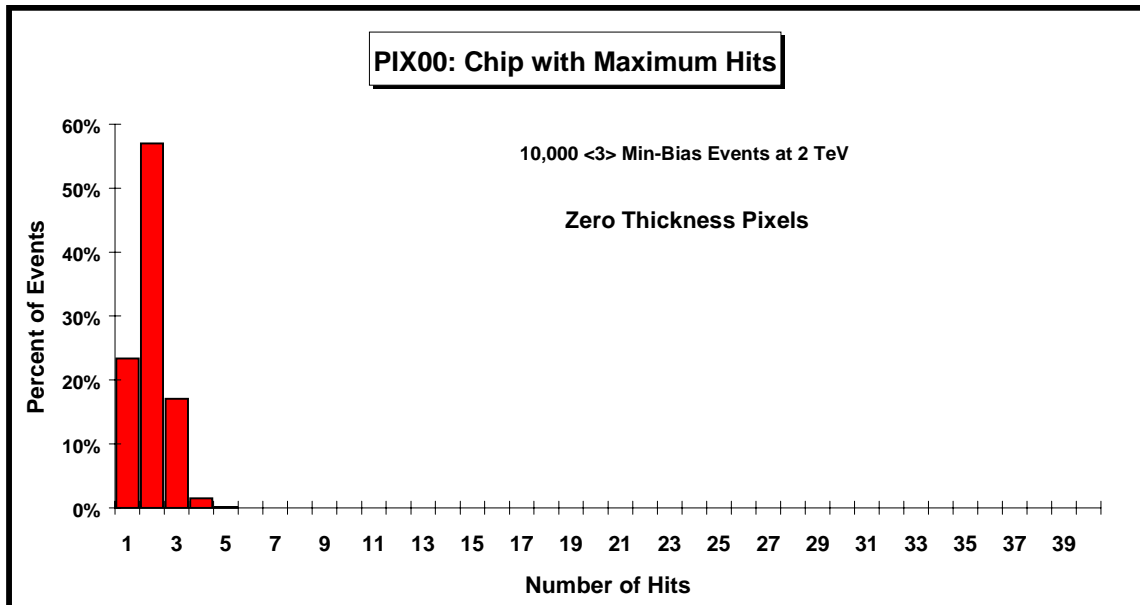


# Preliminary PIX00 Results

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



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



# Preliminary PIX00 Results

PIX00: Chip with maximum hits (Top + <3> min-bias, 250 micron pixel thickness)

