

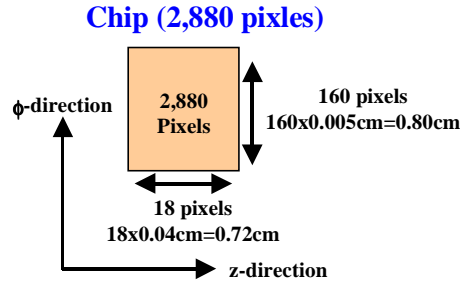
PIX00 Results

Pixel:

0.040 cm in z direction
 0.005 cm in ϕ direction
 250 μm = 0.025 cm thick

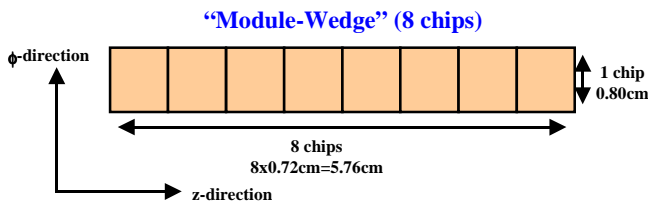
“Chip” (2,880 pixels):

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)

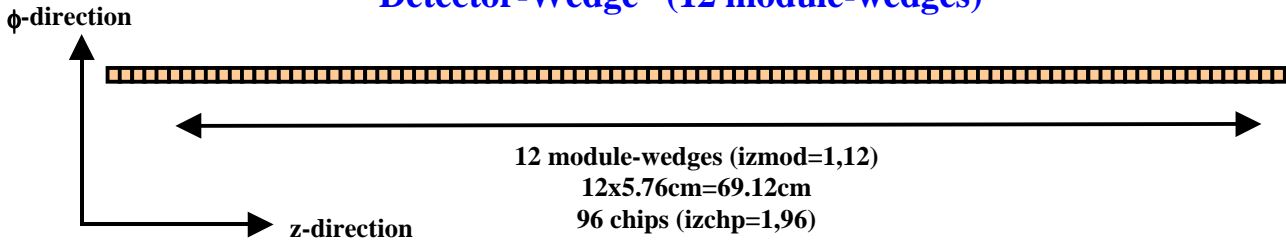


“Module-Wedge” (8 chips):

8x0.72cm= 5.76 cm in z direction
 1x0.80cm= 0.8 cm in ϕ direction
 23,040 pixels (8x2,880)



“Detector-Wedge” (12 module-wedges)

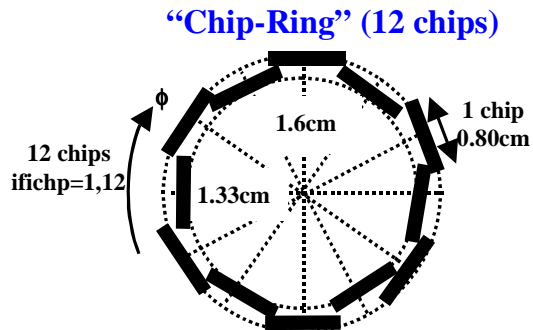


“Detector-Wedge” (12 module-wedges, 96 chips):

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)



New

“Half-Module-Ring” (48 chips):

East: 6 module-wedges (ifichp=1,6)
 West: 6 module-wedges (ifichp=6,12)
 138,240 pixels (6x23,040)

“Module-Ring” (12 modules):

8 chip-rings = 2 half-module-rings
 96 chips (8x12)
 276,480 pixels (8x34,560)

Full Detector:

12 detector-wedges (ifichp=1,12)
 12 module-rings (izmod=1,12)
 24 half-module-rings (east, west)
 96 chip-rings (izchp=1,96)
 144 module-wedges; 1,152 chips
 3,317,760 pixels (izchp=1,96; ifichp=1,12;
 izpix=1,18; ifipix=1,160)

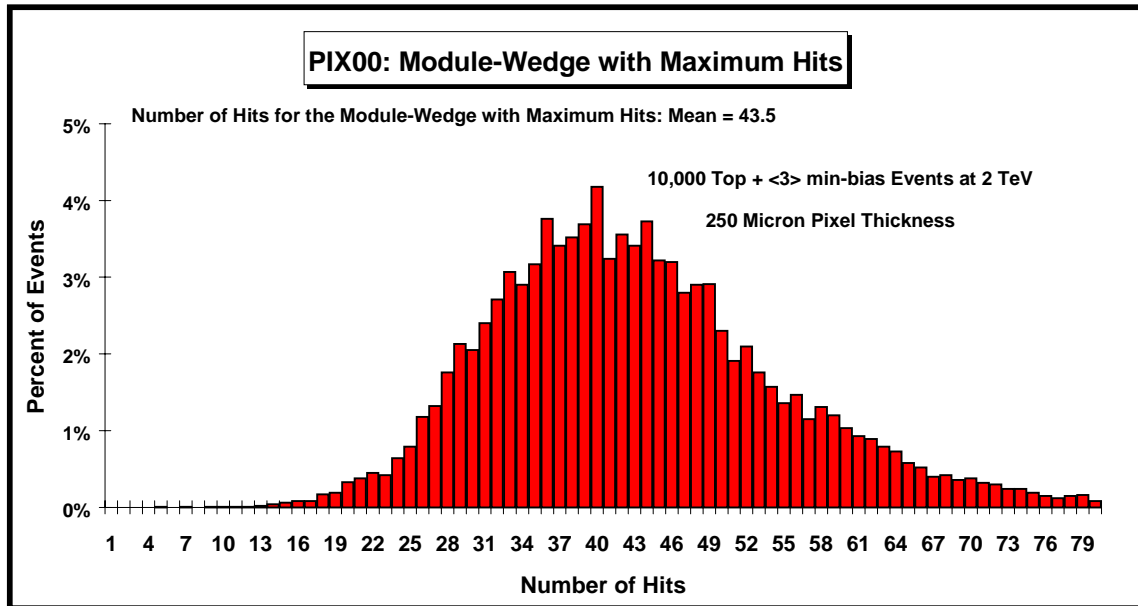
PIX00 Results

| PIX00: 10,000 Top + <3> min-bias Events at 2 TeV ($\sigma_z = 30$ cm) | | |
|--|---------|------------------------------|
| | Average | Abs Max in Run |
| Number of Pixels Hit | 800.5 | 2545 pixels/3,317,760 pixels |
| Number of Pixel Hits | 800.9 | 2549 pixels/3,317,760 pixels |
| Pixel with Maximum Hits | 1.23 | 3 hits/1 pixel |
| Chip with Maximum Hits | 21.7 | 55 hits/2,880 pixels |
| Mod-Wedge with Max Hits | 43.5 | 139 hits/23,040 pixels |
| Half-Mod-Ring with Max Hits | 109.8 | 328 hits/138,240 pixels |
| Mod-Ring with Max Hits | 184.6 | 531 hits/276,480 pixels |
| Number of Pixels with > 1 Hit | 0.42 | 27 pixels/3,317,760 pixels |
| Hits/ Detected Track | 4.3 | 98 hits/1 Track |

New

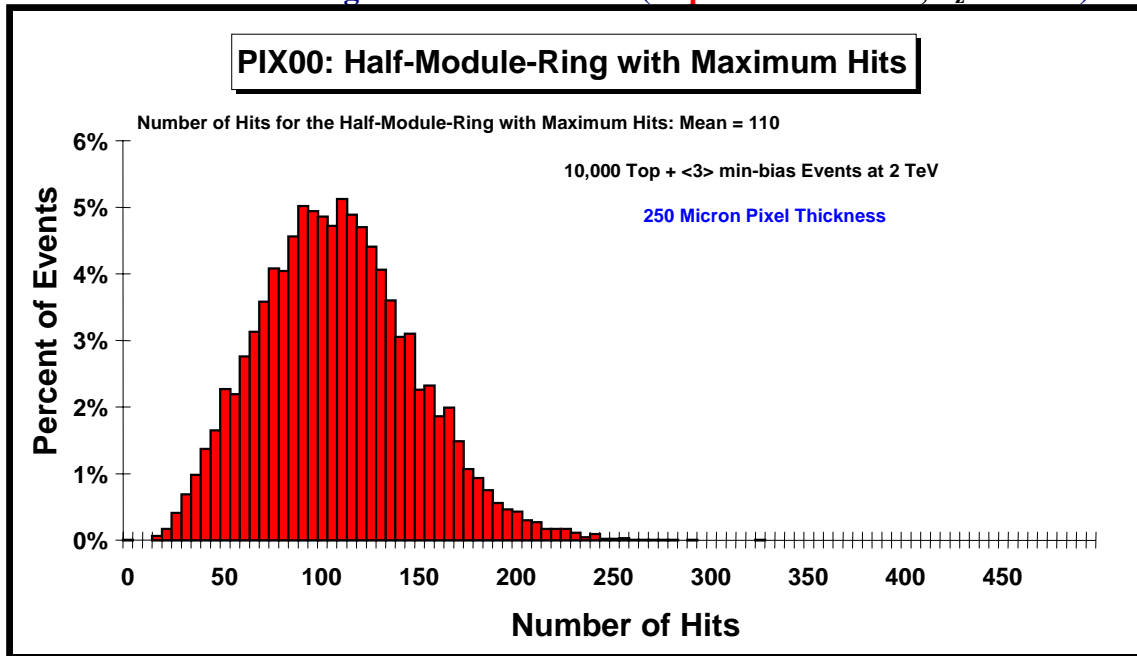
250 micron thick pixels

PIX00: Module-Wedge with maximum hits (Top + <3> min-bias, $\sigma_z = 30$ cm)



PIX00 Results

PIX00: Half-Module-Ring with maximum hits (Top + <3> min-bias, $\sigma_z = 30$ cm)



PIX00: Module-Ring with maximum hits (Top + <3> min-bias, $\sigma_z = 30$ cm)

