

Number of Events

2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0

0

2

4

6

8

10

$\text{sqrt} \{ (x_B - x_\pi)^2 + (y_B - y_\pi)^2 \} \text{ (mm)}$

**GEANT4
Simulation**

Mean	2.154
RMS	1.248