

Number of Events

2000  
1800  
1600  
1400  
1200  
1000  
800  
600  
400  
200  
0

0

2

4

6

8

10

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

**GEANT4  
Simulation**

Mean	2.401
RMS	1.33