

SDD alignment

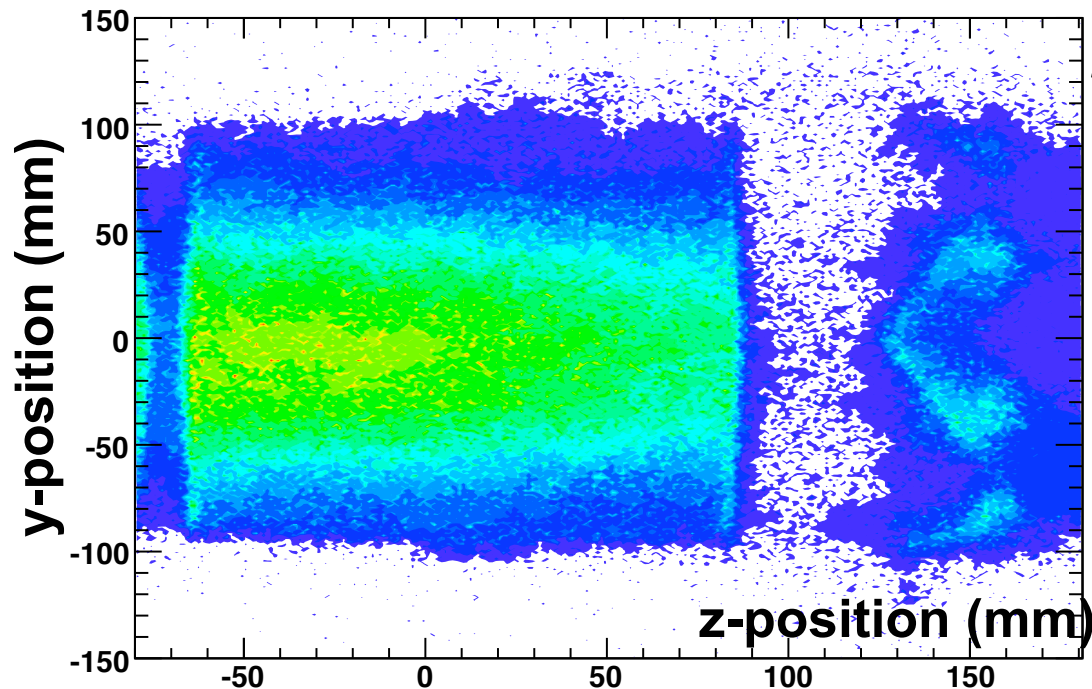
relative position between SDDs and target center

summary

cycle1 : relative $\Delta x = -7 \pm 2$ mm
 $\Delta y = 0 \pm 2$ mm

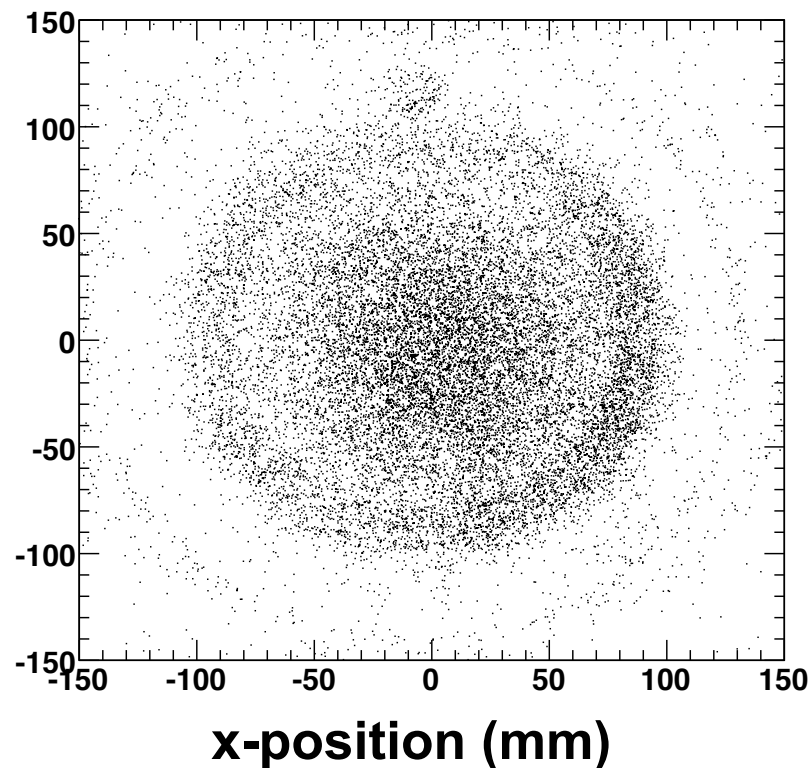
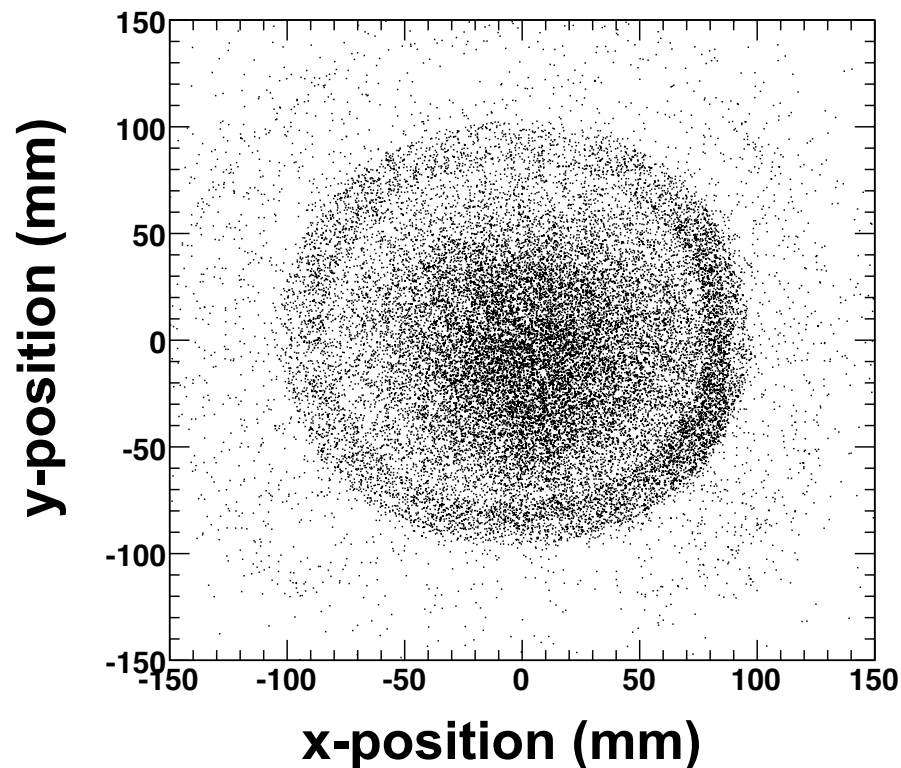
cycle2 : relative $\Delta x = -6 \pm 2$ mm
 $\Delta y = 0 \pm 2$ mm

cell flame
upstream
 $-70 < z < -60$

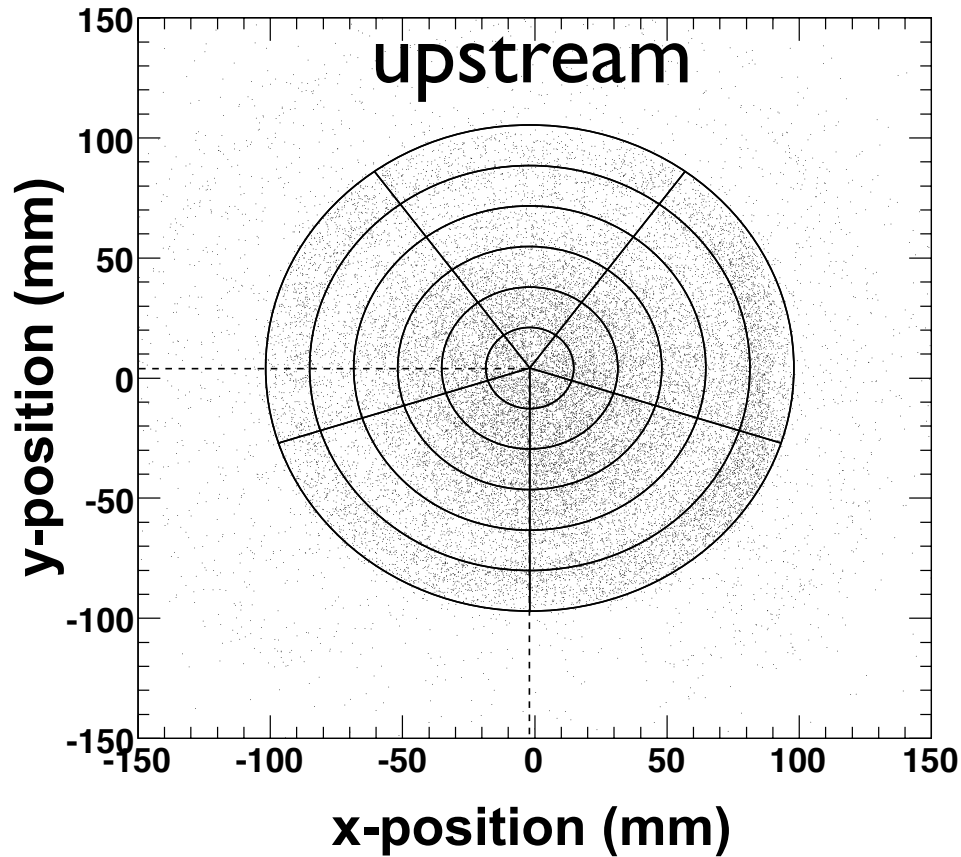


pi-scattering run
run 56 and 57

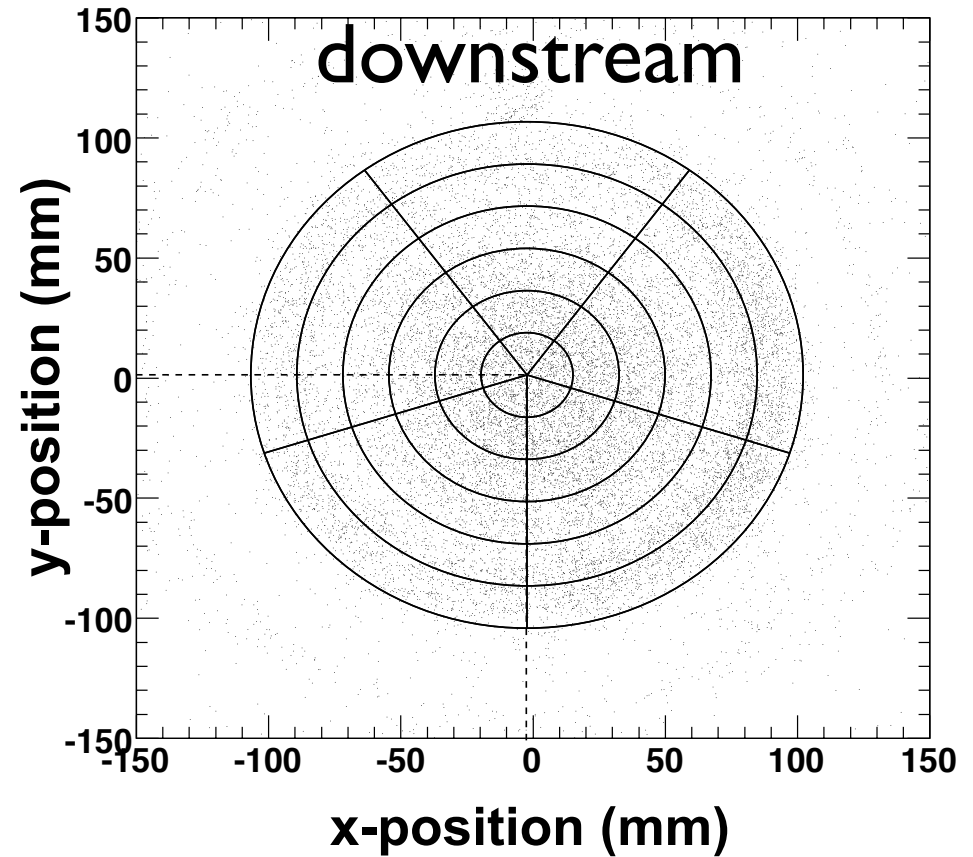
cell flame
downstream
 $80 < z < 90$



Graphical estimation of target center using cell flames



$x = -2 \text{ mm}$
 $y = +4 \text{ mm}$

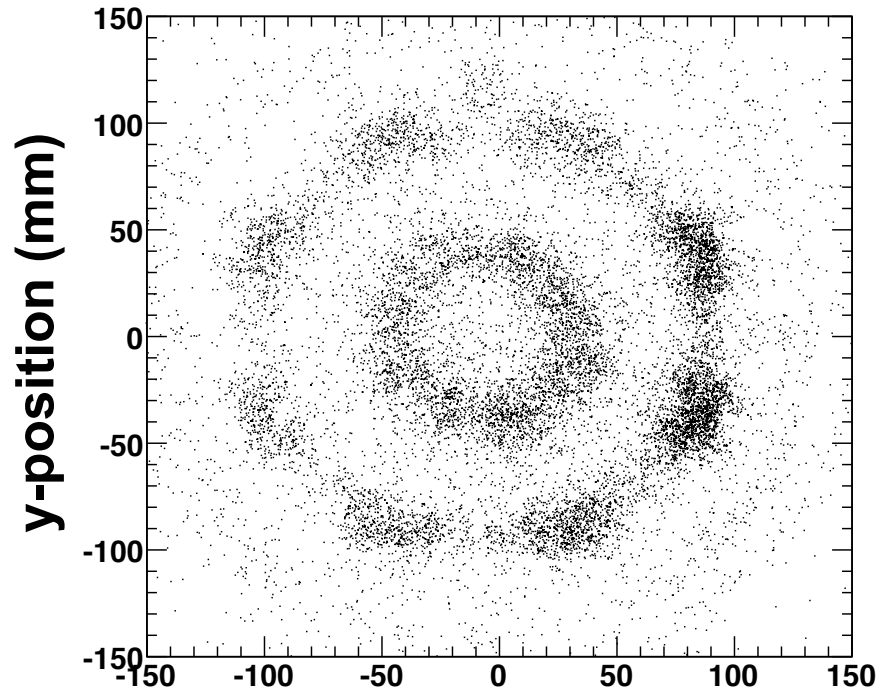


$x = -3 \text{ mm}$
 $y = +2 \text{ mm}$

$x = -2 \pm 2 \text{ mm}$
 $y = +3 \pm 2 \text{ mm}$

Relative position between SDDs and target center

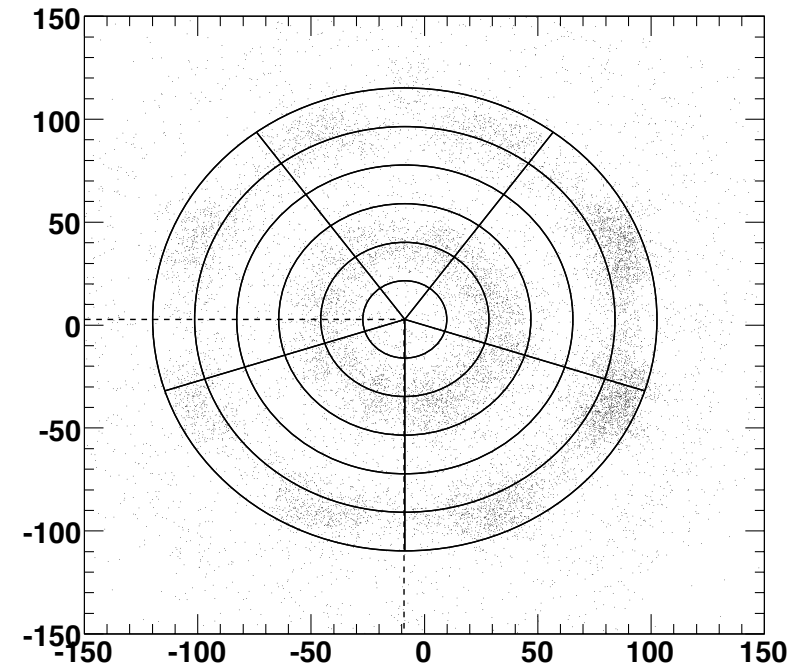
SDD region : $|40 < z < 150$



x-position (mm)

$$x = -9 \pm 2 \text{ mm}$$

$$y = +3 \pm 2 \text{ mm}$$



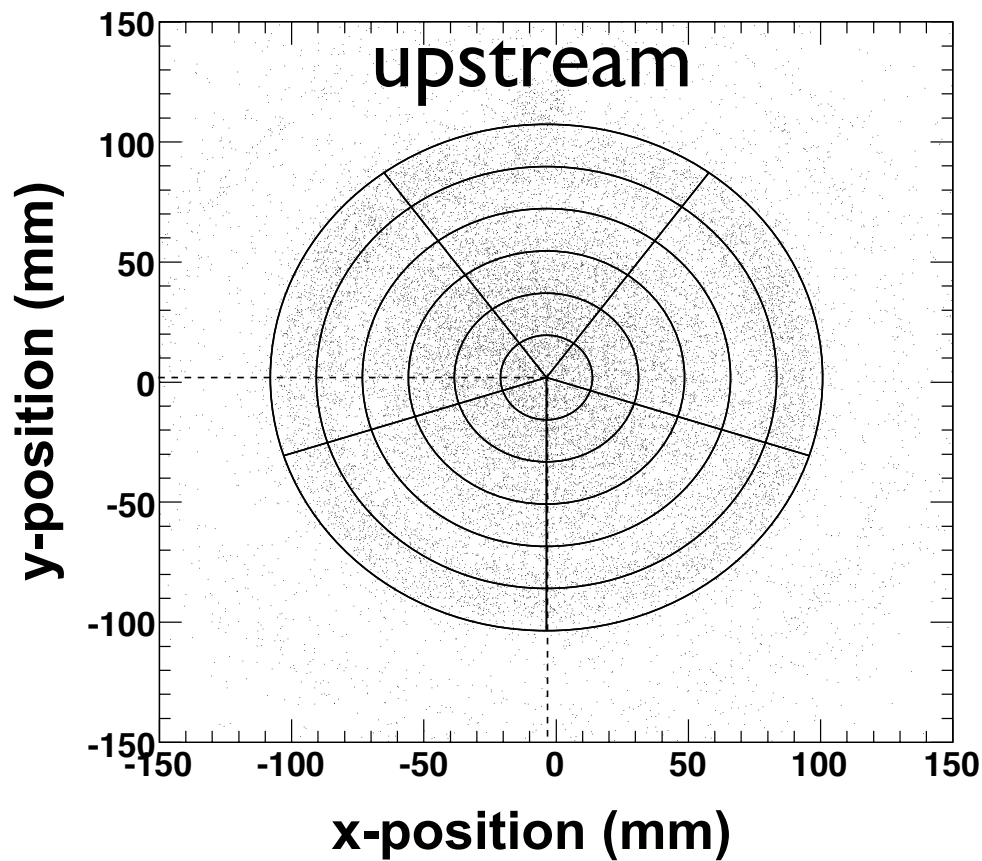
x-position (mm)

relative

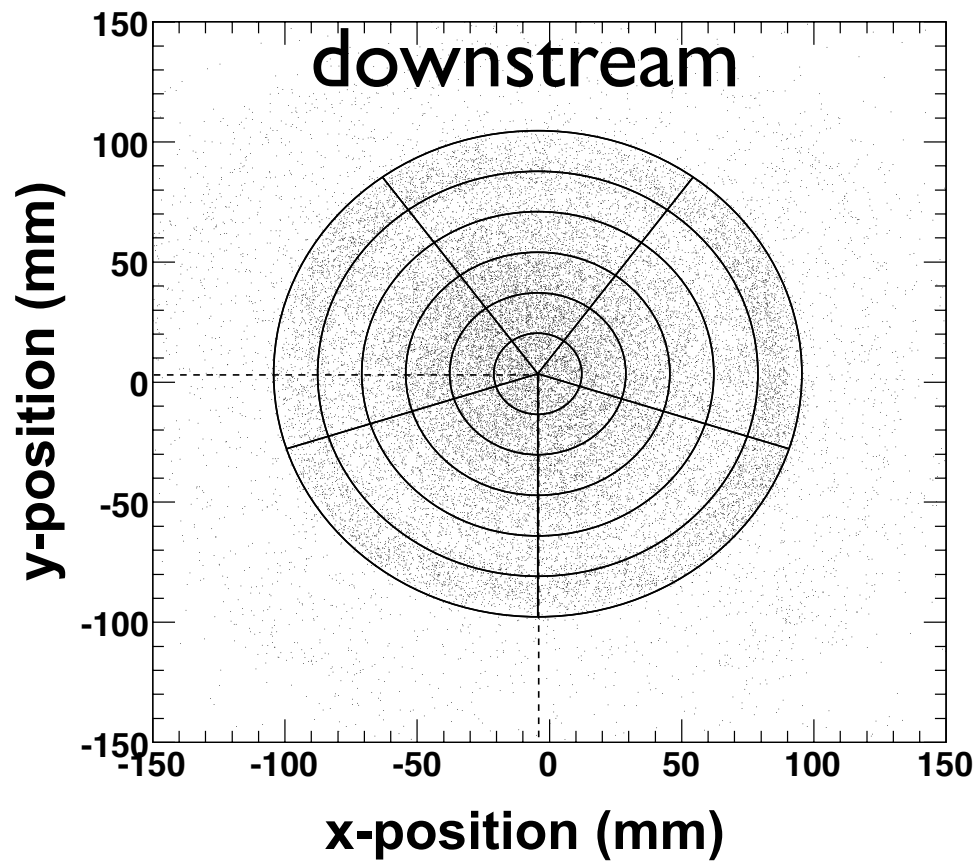
$$\Delta x = -7 \pm 2 \text{ mm}$$
$$\Delta y = 0 \pm 2 \text{ mm}$$

Graphical estimation of target center using cell flames

***pi+ scattering run
run 223 and 224***



**x = -2 mm
y = +1 mm**

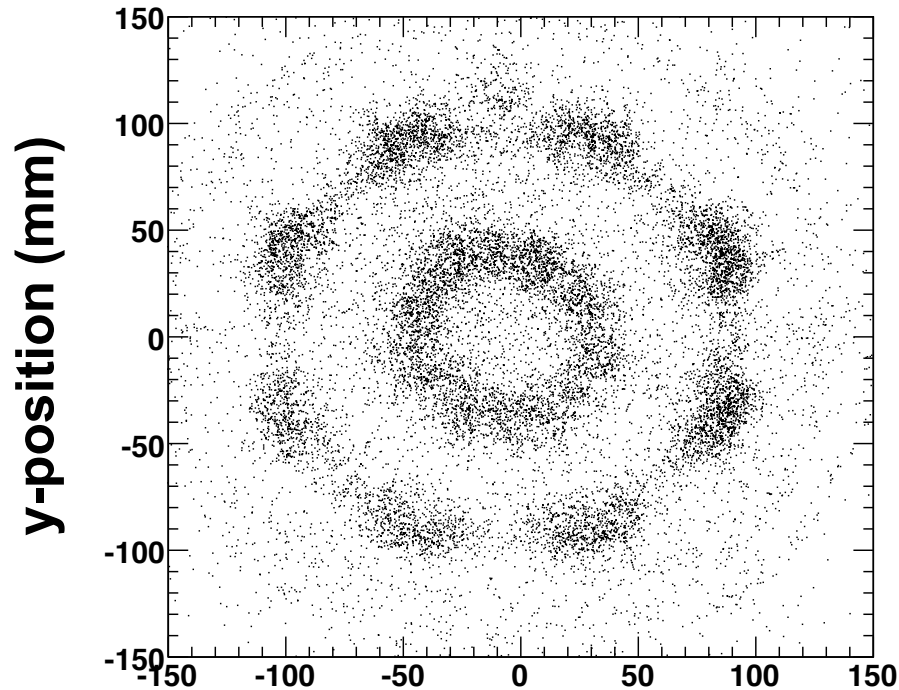


**x = -2 mm
y = +2 mm**

**x = -2±2 mm
y = +2±2 mm**

Relative position between SDDs and target center

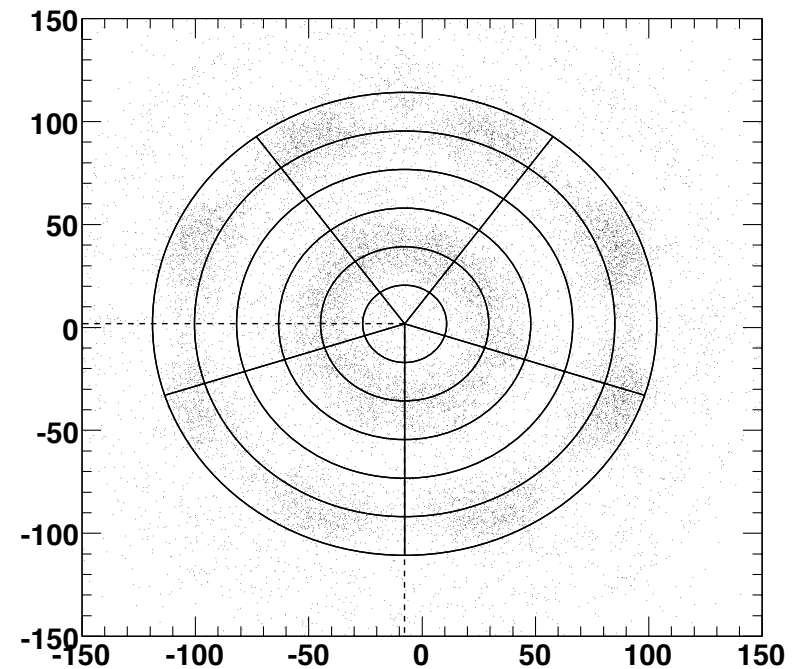
SDD region : $|40 < z < 150$



x-position (mm)

$$x = -8 \pm 2 \text{ mm}$$

$$y = +2 \pm 2 \text{ mm}$$



x-position (mm)

relative

$$\Delta x = -6 \pm 2 \text{ mm}$$
$$\Delta y = 0 \pm 2 \text{ mm}$$