SSD Holder position: (z_0, x_0) = (24, 30.8) [mm]

100000 α particles flown 180 times

α initial position distribution:

N_x (3.50, 0.00) $\times$ N_y (0.01, 13.64) $\times$ N_z(-0.00, 13.64) [mm]

α average direction:

(0.50, -0.00, 0.00) (normalized)

0.00 $\pm$ 0.00 % of them reached the Si detector.

Based on calculated solid angle = 0.338982 %