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

100000 α **particles flown 180 times**

α **initial position distribution:**

  $N_x(3.50, 0.00) \times N_y(-0.00, 14.11) \times N_z(0.01, 14.11)$ **[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 = 0.0218257 %