100000 α particles flown 180 times

α initial position distribution:

$N_x(0.00, 5.85) \times N_y(-0.00, 6.69) \times N_z(94.31, 7.96)$ **[mm]**

α average direction:

(-0.00, 0.00, 0.00) (normalized)

0.066 $\pm$ 0.001 % of them reached the Si detector.

Based on calculated solid angle = 0.105931 %