



100000 α particles flown 180 times

α initial position distribution:

$$\mathbf{N_x(-0.00, 5.58) \times N_y(0.00, 6.26) \times N_z(95.22, 8.24) \text{ [mm]}}$$

α average direction:

$$\mathbf{(-0.00, -0.00, 0.00) \text{ (normalized)}}$$

0.073 ± 0.001 % of them reached the Si detector.

Based on calculated solid angle = 0.105931 %