



100000 α particles flown 180 times

α initial position distribution:

$$N_x(0.00, 4.56) \times N_y(-0.00, 4.56) \times N_z(97.30, 4.91) \text{ [mm]}$$

α average direction:

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

0.121 ± 0.001 % of them reached the Si detector.

Based on calculated solid angle = 0.105995 %