



Figure 1: Definition of the kinematical quantities relevant for the large-angle scattering experiment of Rutherford. The picture depicts the large-angle deviation due to a single atom. The impact parameter is b (before the collision) and the resulting scattering angle is θ . The position of the α particle along its trajectory is given by (r, α) . The distance of closest approach is defined by DCA along an axis z' .

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