List of Figures

Pag

Figure

e Figure (3.1): Sketch of cylindrical solid angle in 8 cylindrical symmetry 11 Figure (3.2): Sketch illustrating scattering process of particles on two dimensions central potential Figure (3.3): Sketch illustrating the forces and its 16 directions between two point charges of the same charge Figure (3.4): Sketch illustrating the intensity of electric 17 field and its direction that arises from point charges 18 Figure (3.5): Sketch illustrating the intensity of electric field and its direction that arises from charged wire of an infinite length Figure (3.6): Sketch illustrating the intensity of electric 20 field as a function of the normal distance from origin Figure (3.7): Sketch illustrating the electric potential 21 that arises from charged wire of an infinite length 22 Figure (3.8): Sketch illustrating the electrical potential as a function of the normal distance from origin 30 Figure (5.1): Plotting of the function $f(\rho)$ given in Eq.

- (4.8), with the ratio between linear charge density and total energy, and impact parameter a=0.2000 and impact parameter b=50.00 or
- Figure (5.1): Plotting of the function $f(\rho)$ given in Eq (4.8), with the ratio between linear charge density and total energy, and impact parameter a=0.2050 and impact parameter b=50.00 or
- Figure (5.1): Plotting of the function $f(\rho)$ given in Eq (4.8), with the ratio between linear charge density and total energy, and impact parameter a=0.2100 and impact parameter b=50.00 or

- Figure (5.4): Plotting of the scattering angle against 32 impact parameter, with different values of the ratio between linear charge density and total energy
- Figure (5.6): Plotting of the differential scattering cross 33 section against scattering angle, with different values of the ratio between linear charge density and total energy