

Next, we consider the case where the projectite is also almost sphere of radius R: Now, since the impact parameter is reacured from the center of the projectile, Hore will clearly be a collision solong as b<R+R. Thus, to the projectile, the target appears tobe a circle of radius R+R and thus the scattering cross section is given by $\sigma = \pi \left(R + \tilde{R} \right)^2$ Evidently, the scattering cross-section is a combined preperty of the target and the projective.