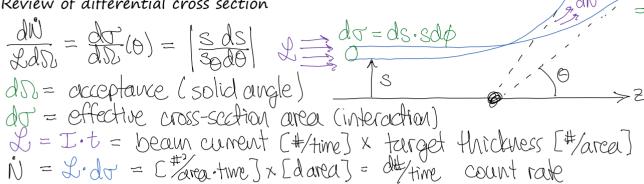
L34 Rutherford scattering

Tuesday, November 3, 2020

• Review of differential cross section



• Review of inverse-square law solution

$$\frac{1}{p} = U = \frac{1}{C} \left(1 + e \cos(\phi - \phi_a) \right) \quad \text{ad} \quad e^2 = 1 + \frac{2EL^2}{Wv^2} \quad e^2 = 1 + \frac{2EL^2$$

on perigo hyperbola

ellipse(baund)

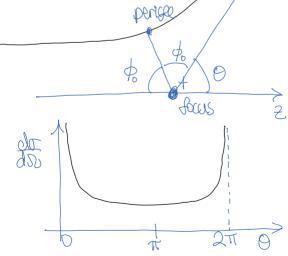
parigol

asymptote (p+100)

To 2TT

Po 40, Po. Po. Po. Po.

• Rutherford scattering cross section



focus

an = | sds | = 212 sm-4 g