## 1.库伦散射公式

$$2mV_0 \sin \frac{Q}{2} \cos \frac{Q}{2} = \frac{\pm e}{2\pi E_0 b V_0} \left(2\log \frac{Q}{2} - 1 + 1\right)$$

$$2mV_0 \sin \frac{Q}{2} \cos \frac{Q}{2} = \frac{\pm e^2}{2\pi E_0 b V_0} \left(2\log \frac{Q}{2} - 1 + 1\right)$$

$$mV_0 \tan \frac{Q}{2} = \frac{\pm e^2}{2\pi E_0 b V_0}$$

$$b = \frac{\pm e^2}{2\pi E_0 mV_0} \cot \frac{Q}{2}$$

$$= \frac{1}{4\pi E_0} \frac{\pm e^2}{E_0} \cot \frac{Q}{2}$$