$$\frac{1}{\mathrm{E}_f} - \frac{1}{\mathrm{E}_i} \quad = \quad \frac{1}{\mathrm{m_e c}^2}\left(1 - \cos\theta\right)$$

$$\mathrm{E}_f \quad \sim \quad \mathrm{E}_i \left(\frac{2}{1 - v/c}\right)$$

$$\text{Lorentz factor } \gamma \quad = \quad \frac{1}{\sqrt{1 - \frac{v^2}{c^2}}}$$