



Ignoring any sheath effects we can write

$$\Gamma = n v$$

$$\frac{[H][m]}{[m][S]} = \frac{[H]}{[S]}$$

$$\Gamma = n(x=0) v(x=0)$$

only want $v \leftarrow$
-∞ 0

$$n v = \int v f(x, v, t) dv$$

$$\Rightarrow \Gamma = \int_{-\infty}^0 v f(x=0, v, t) dv$$

b.) Preflection $\equiv \alpha$

$$E_{\text{reflected}} \equiv \beta E_{\text{incident}} \Rightarrow v_{\text{ref}} = \sqrt{\beta} v_{\text{inc}}$$

so $f(x=0, v, t) \rightarrow f(x=0, -\sqrt{\beta} v, t)$ upon reflection

Using Preflection gives the following B.C. =

$$f(x=0, v < 0, t) = \alpha f(x=0, -\sqrt{\beta} v, t)$$