

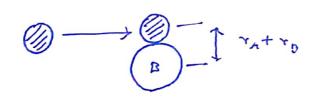
of collisions per unit time per writ volume $= \pi (r_A + r_b)^2 \times v_s \times t \times n_B \times n_A$

collision cross-section

Rate =
$$\int_{bh_{2}}^{x} \int f(v) v_{\tau} dv_{\tau} \times n_{A} \times n_{Q}$$

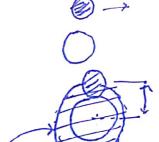
= $\int_{bh_{2}}^{x} \times \int f(v) v_{\tau} dv_{\tau} \times n_{A} \times n_{Q}$
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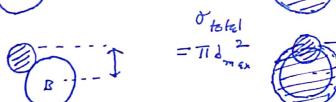
 $k(\tau) = \sigma_{total} \times \langle v_{\tau} \rangle$

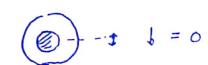


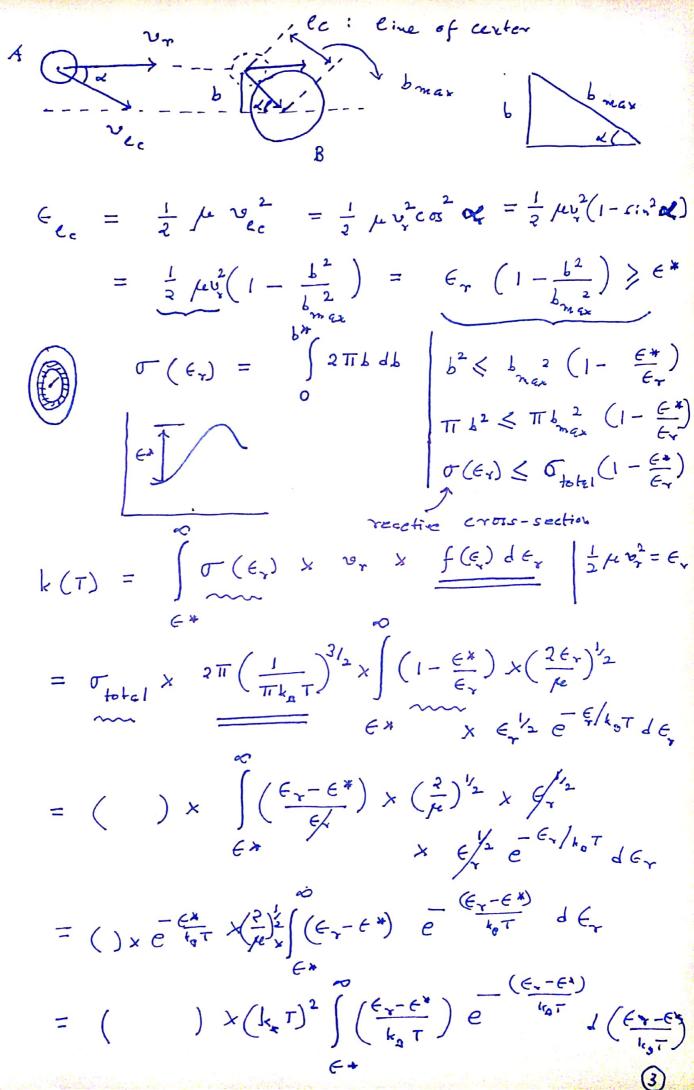












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