$$I(t) = N_{\text{paths}} I_{\text{paths}}$$

$$N_{\text{paths}} = dN_{\text{total}}$$

$$N_{\text{total}} = \frac{\pi ab}{dx^2}$$

$$t = \sqrt{(x+a)^2 + z_s^2} + \sqrt{(x+a-x_d)^2 + z_d^2}$$

$$t = \sqrt{x^2 + b^2 + z_s^2} + \sqrt{(x-x_d)^2 + b^2 + z_d^2}$$

$$x = x_d \frac{zs}{zs+zd}$$

$$I(t) = \sum_{\text{chunks}} \left(\frac{z_s dx^2}{4\pi(x^2+y^2+z_s^2)^{\frac{3}{2}}} \frac{dx^2}{2\pi((x-x_d)^2+y^2+z_d^2)} \right)$$

$(0,0,z_s)$ $(x_d,0,z_d)$ $(x,0,0)$