

$$I(t) = \begin{cases} 0 & t \leq 0 \\ I_0 & t > 0 \end{cases}$$

$$\mathbf{A}(s, t) = \frac{\mu_0}{4\pi} \int_{-\infty}^{\infty} \frac{\mathbf{I}(z, t_R)}{\sqrt{s^2 + z^2}} dz$$

$$t_R \equiv t - \frac{\sqrt{s^2 + z^2}}{c}$$

What is $I(z, t_R)$?