

$$\begin{split} t_i &= KdL_i \sin \theta_i \quad \text{measured} & t_f = KdL_f \sin \theta_i \\ \frac{t_f}{t_i} &= \frac{L_f \sin \theta_f}{L_i \sin \theta_i} & \theta_f = 90^\circ & L_f = 63 \end{split}$$

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$$H(x) = pV(x) \otimes E(x) = \int pV(x-t)E(t) dt$$

$$E(t) = \begin{cases} \frac{\alpha\beta}{\alpha+\beta}e^{\alpha t} & t \le 0 \qquad \alpha = \frac{\alpha_0}{\beta} \\ \frac{\alpha\beta}{\alpha+\beta}e^{-\beta t} & t > 0 \quad \beta = \beta_0 + \frac{\beta_1}{\beta} \end{cases}$$

