

The image displays a plot of the following equation:

$$E = E_0 + \frac{1}{2 \sinh(\gamma(0)/2)} \sinh(\gamma(0) (\frac{1}{2} + c(0))) h c \nu_{vib}$$

The equation is rendered in a multi-colored font. The plot includes a horizontal x-axis ranging from 0 to 1200 and a vertical y-axis ranging from 0 to 150. The equation is positioned at approximately y=75.