H vs. log probability ratio for harmonic oscillators with pressure (linear)

Legend:
- $\ln\frac{P_2(H)}{P_1(H)}$
- $-(\beta_2-\beta_1)H$
- **Fit to** $y = b + aB$

y-axis: $\ln\frac{P_2(H)}{P_1(H)}$

x-axis: $H(kT)$