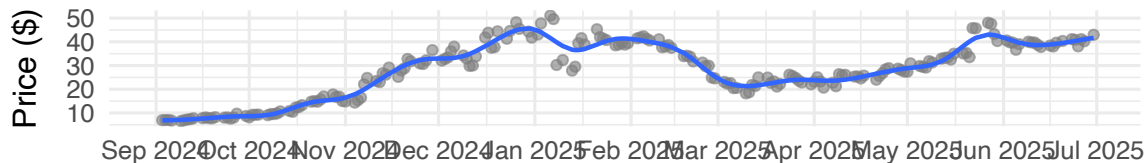
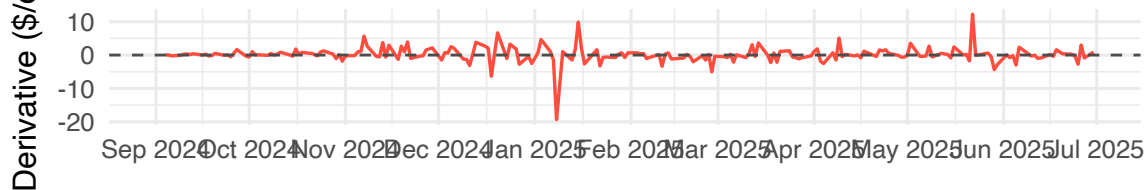


(a)

IONQ Stock Price with P-spline fit

(b)

Empirical (Noisy) Derivative

(c)

Smoothed Derivative Comparison