Empirical Standard Deviation vs Bounce Length

Legend:
- Empirical $\sigma(m)$
- Linear ($R^2=0.607$)
- Power law ($R^2=0.832$)
- Quadratic ($R^2=0.845$)

Best fit:
$$\sigma(m) = 0.028 \cdot m^{0.149}$$

X-axis: Bounce Length m

Y-axis: Standard Deviation $\sigma(m)$