Raman Resonance (288560 GHz) 770.60 E 770.55 Linear Quadratic $f_0 = 770.2171(45)$ MHz Fred red 770.50 770.45 770.40 a = 25.27(33)kHz·mW⁺¹ $f = f_0 + a \cdot P$ $f = f_0 + a \cdot P + b \cdot P^2$ $f_0 = 770.203(12)$ MHz $a = 28.7(27) \text{kHz} \cdot \text{mW}^{-1}$

770.35 B 770.30 $b = -0.17(13) \text{kHz} \cdot \text{mW}^{-2}$ 5.0 2.5 7.5 10.0 12.5 15.0 Tweezer Power (mW)