Raman Resonance (288560 GHz) 770.60 E 770.55 Linear Quadratic $f_0 = 770.21039(13)$ MHz Fred red 770.50 770.45 770.40 a = 25.890(33)kHz·mW⁻¹ $f = f_0 + a \cdot P$ $f = f_0 + a \cdot P + b \cdot P^2$ 770.35 B 770.30 $f_0 = 770.20213(37)$ MHz $a = 28.94(13) \text{kHz} \cdot \text{mW}^{-1}$ $b = -0.1862(91) \text{kHz} \cdot \text{mW}^{-2}$ 5.0 10.0 2.5 12.5 15.0 Tweezer Power (mW)