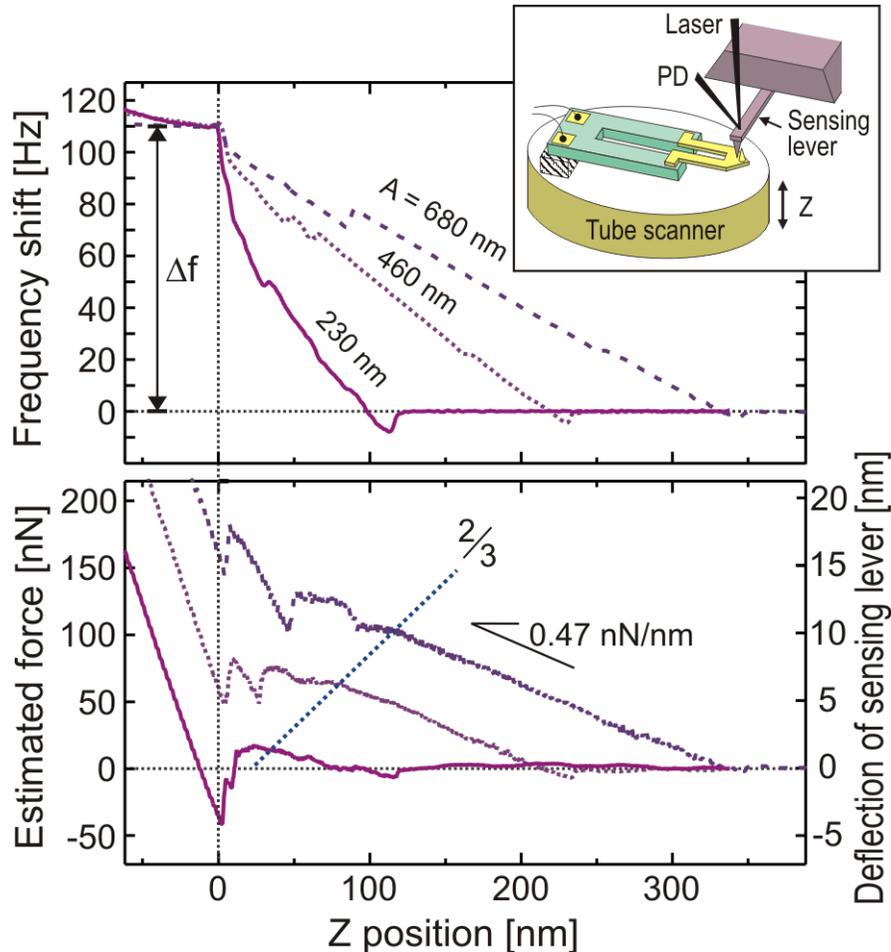




## Measurement of average loading force



- ❑ Approach curves with three different amplitude settings
- ❑ Note that  $\Delta f$  does not change with amplitude setting (please also check the Akiyama Probe guide.)
- ❑ The result shows that the three lines have nearly the same slope in spite of different amplitude settings. The average loading force is therefore proportional to the reduced tip vibration amplitude.

T. Akiyama, *et al.* "Implementation and characterization of a quartz tuning fork based probe consisted of discrete resonators for dynamic mode atomic force microscopy," Rev. Sci. Inst. 81, 063706 (2010); <http://dx.doi.org/10.1063/1.3455219>

**NANOSENSORS™**  
Neuchatel Switzerland  
<http://www.nanosensors.com>  
e-mail: [info@nanosensors.com](mailto:info@nanosensors.com)