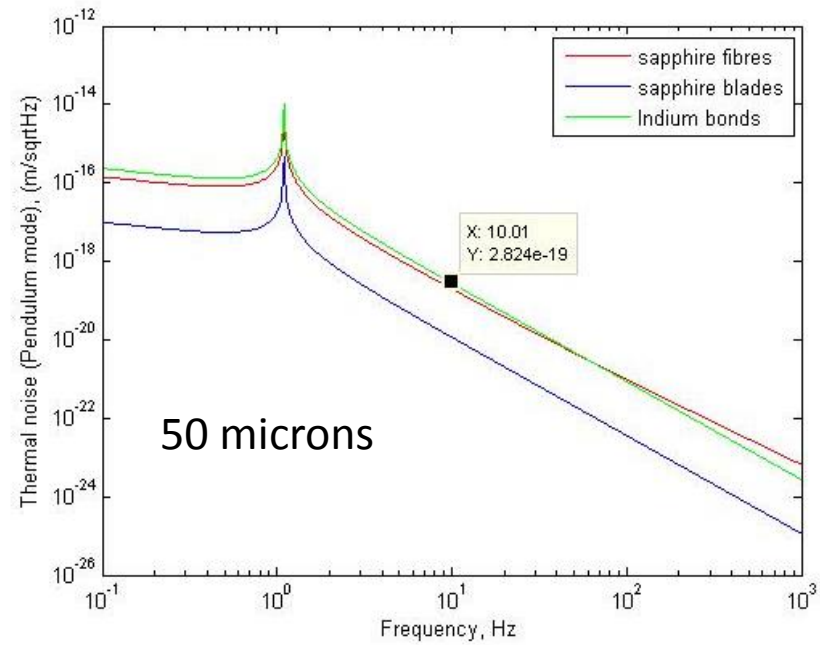
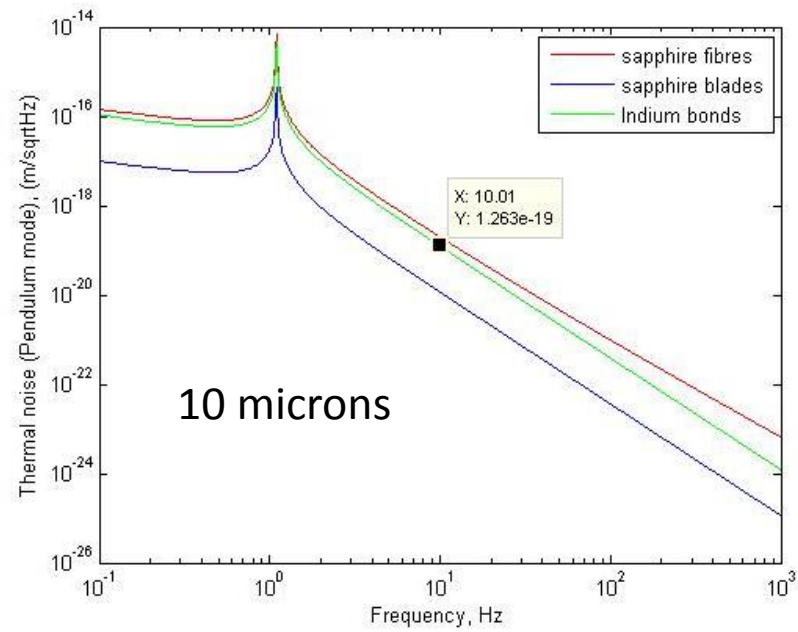


Thermal noise in Indium bonds (kagra suspensions) – as a function of thickness

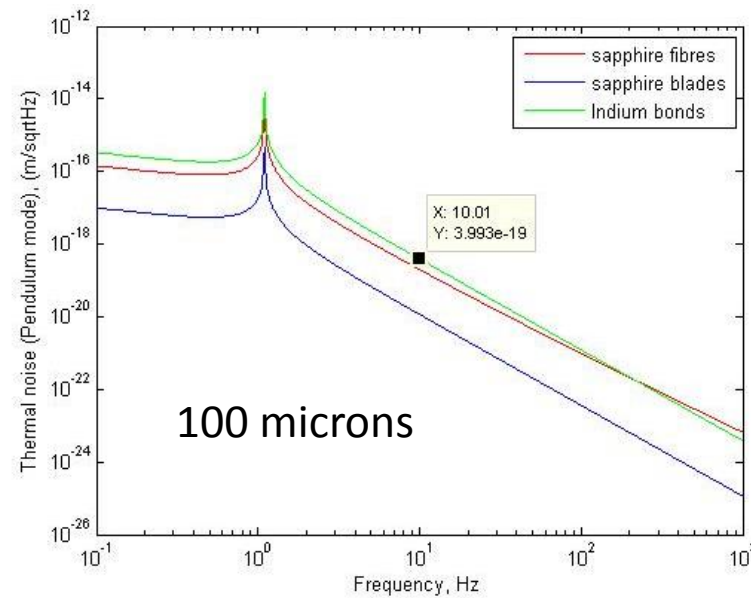
Rahul Kumar

ICRR, The University of Tokyo,

04 September 2014

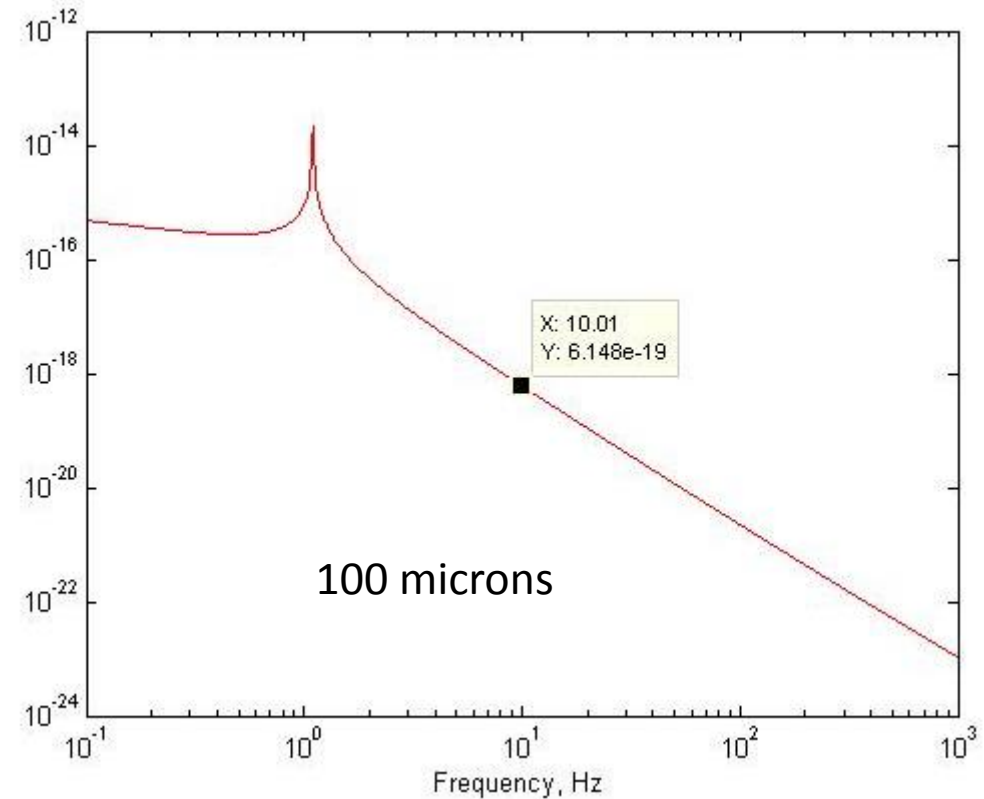
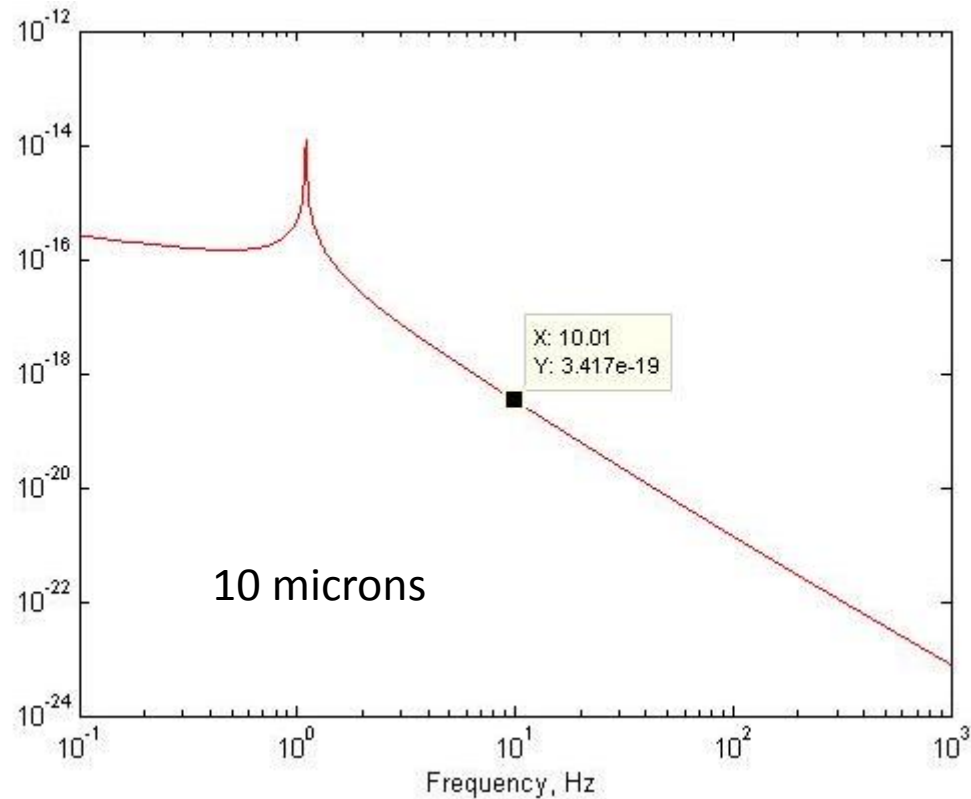


Individual
thermal noise
plots for the
pendulum mode



@ 20 kelvin

Total thermal noise plots for the pendulum mode



Remark:- increasing the thickness of indium layer from 10 microns to 100 microns increases the total pendulum mode thermal noise by a factor of 2