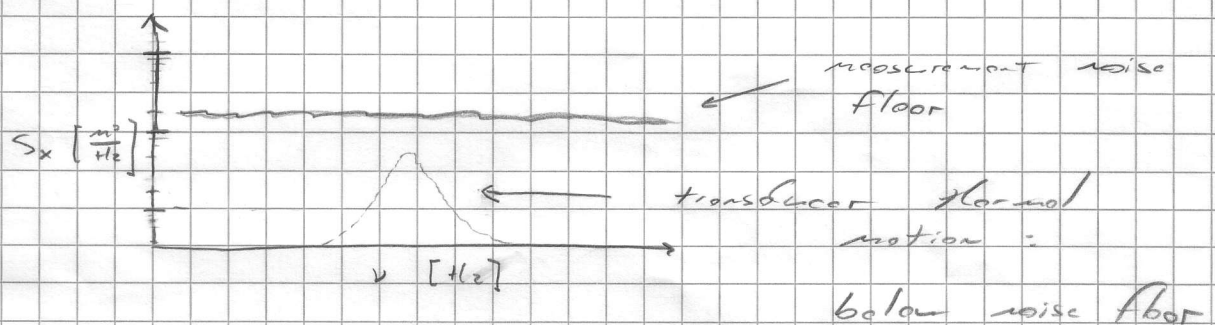


Noise limits on mechanical transducers:

- ① Motion detector noise floor or displacement imprecision of sensor

↳ Due to electrical noise, background noise, shot noise, etc.



In this limit we cannot resolve the transducer's thermal motion. We are limited by our displacement sensing.

- ② Transducer thermal noise

↳ Due to the fluctuation of the environment (temperature T) and the strength of the transducer's coupling to the environment (dissipation Γ).

