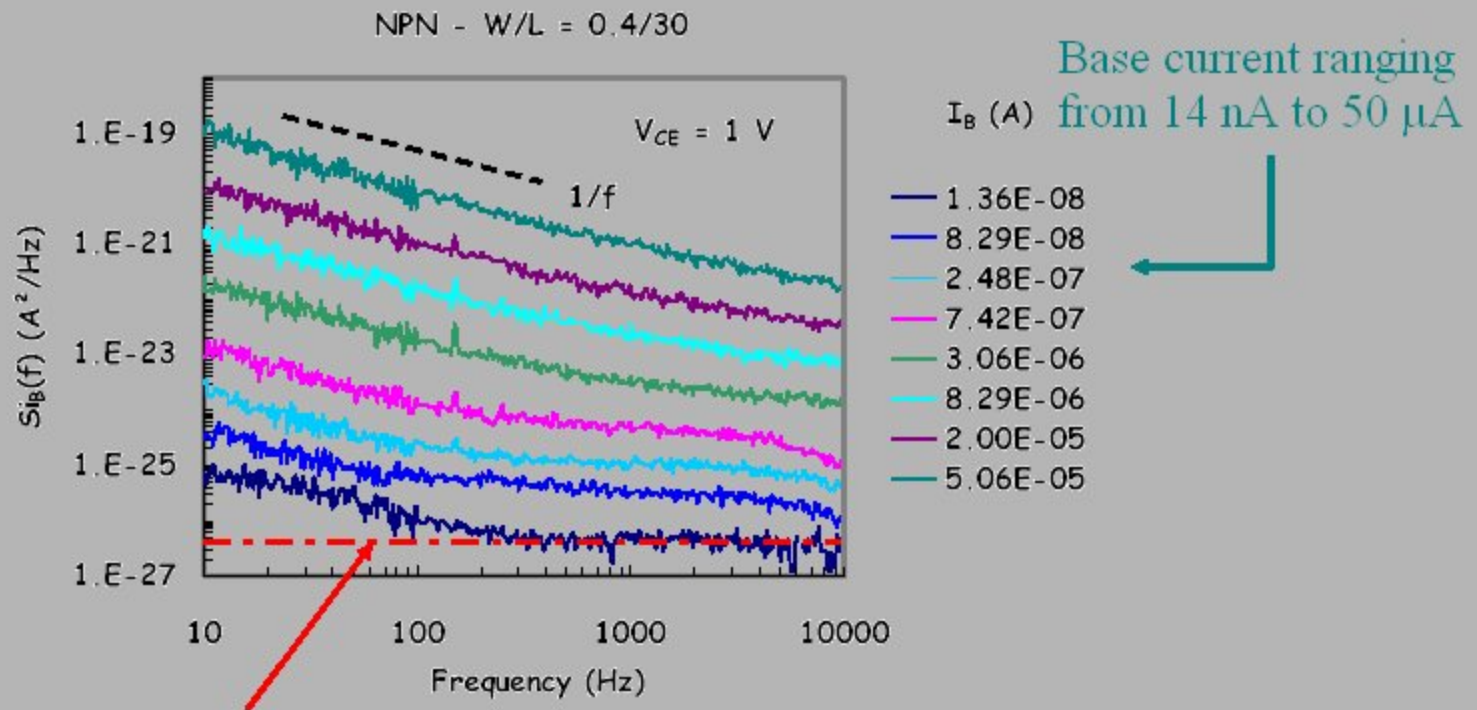


# BJTs noise characterization with PBA

We report base current noise  $S_{i_B}(f)$  automated measurements examples performed using the PBA on **an NPN bipolar transistor**

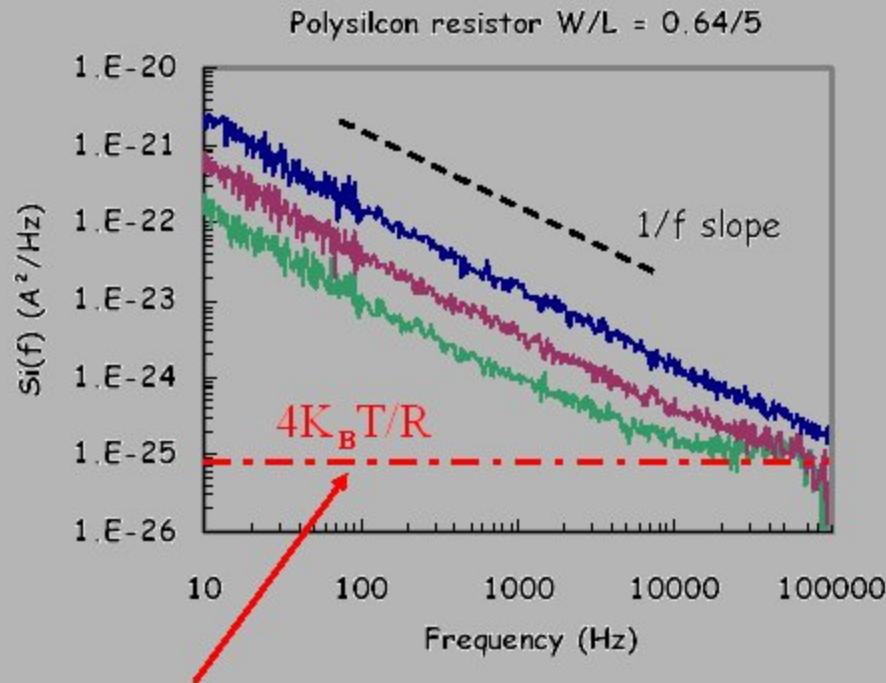


Theoretical shot noise =  $2qI_B$

Example of spectra on a bipolar transistor

# Resistors noise characterization with PBA

We report current noise  $S_i(f)$  measurements examples performed using the PBA on **Polysilicon resistors**



Thermal noise level =  $4K_B T/R$

**Example of spectra taken on metal ship resistors fabricated on Si substrate at various current levels. Bottom thermal noise and ideal resistance.**