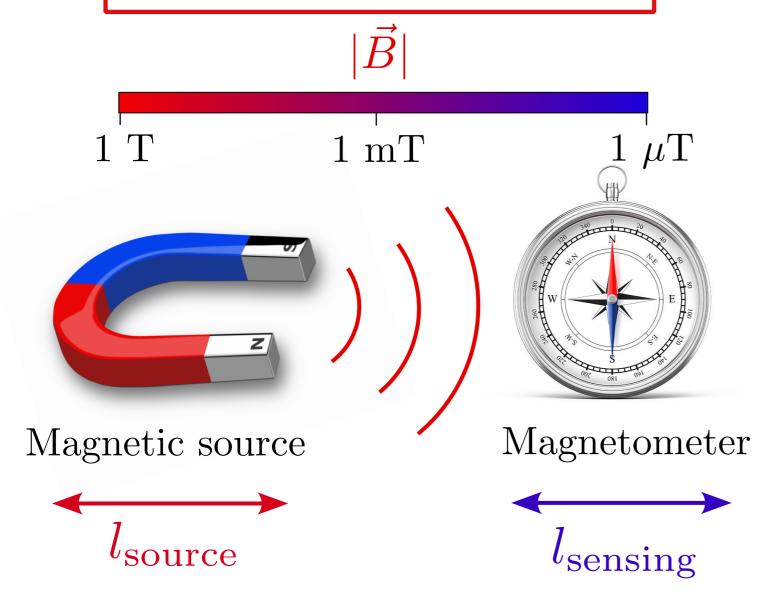
Sensitivity $[T/\sqrt{Hz}]$:

Minimum magnetic field value detectable with a signal-to-noise ratio of 1 within 1 second.



Optimum spatial resolution (imaging):

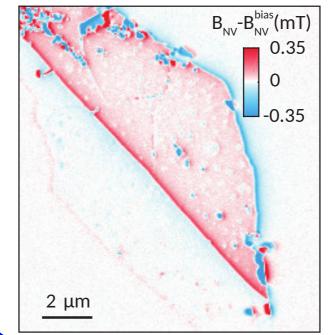
$$l_{\rm sensing} \leq l_{\rm source}$$

Magnetoencephalography



 $|\vec{B}| \sim 10 \text{ fT}$ $l \sim 1 \text{ cm}$

2D materials magnetism



 $|\vec{B}| \sim 100 \ \mu T$ $l \sim 50 \ \mathrm{nm}$

Thiel, L. et al (2019). Science, 364(6444), 973-976.