

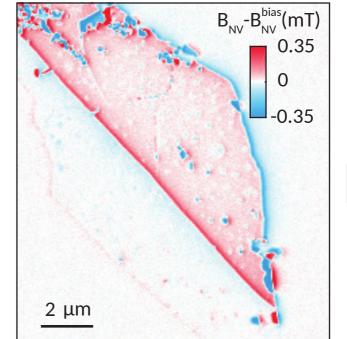
Optimum: $l_{\text{sensing}} \approx \max\{l_{\text{source}}, l_{\text{working}}\}$

Magnetoencephalography



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

2D materials magnetism



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