



Shot noise limited for $f_{\text{mod}} > 500 \text{ Hz}$

Low pass filter $\tau = 3 \text{ ms}$ $\sqrt{\langle \delta B^2 \rangle} \approx 1.2 \mu\text{T}$

\rightarrow sensitivity $\eta = \sqrt{2\tau \langle \delta B^2 \rangle} \approx 116 \text{ nT}/\sqrt{\text{Hz}}$