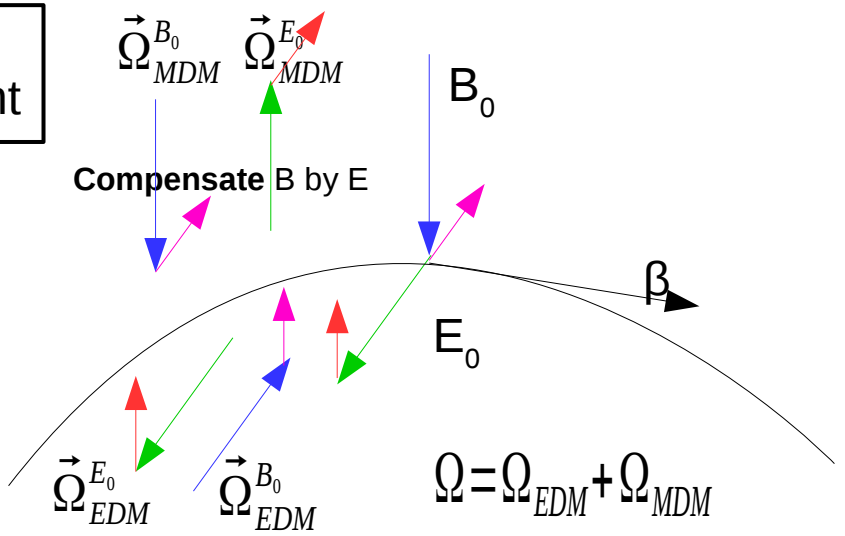
Misalignment

Principally unfixable in a deuteron ring (Lorentz force)

Frequency measurement

Non-zero MDM precession

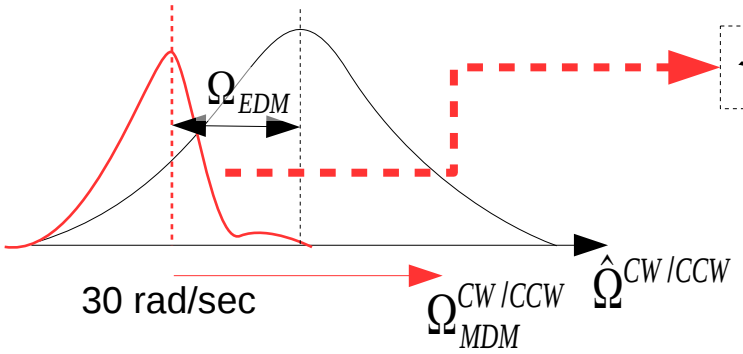
Compensate B by E



$$\hat{\Omega}_{EDM} = \frac{\hat{\Omega}^{CW} + \hat{\Omega}^{CCW}}{2} + \frac{\Omega^{CW}_{MDM} - \Omega^{CCW}_{MDM}}{2}$$

CW/CCW comparison

$$\Omega = \Omega_{EDM} + \Omega_{MDM}$$



$$\gamma^{CW}_{eff} \approx \gamma^{CCW}_{eff}$$

$$\vec{\Omega}_{MDM} = \underbrace{a_0(\gamma G)\vec{B}}_{\vec{\Omega}^{B}_{MDM}} - \underbrace{a_1(\gamma G)\vec{\beta}\times\vec{E}}_{\vec{\Omega}^{E}_{MDM}}$$

solenoid

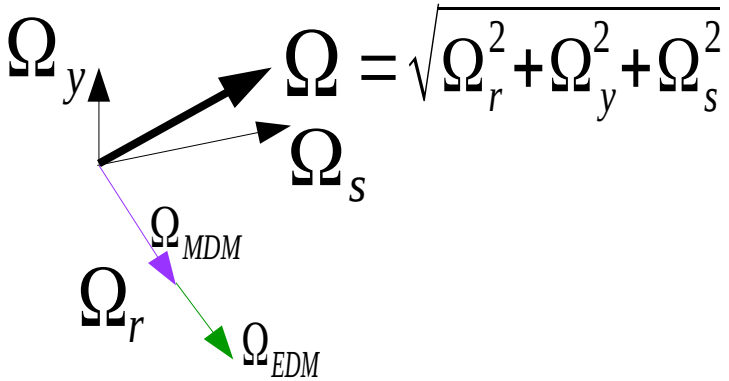
$$\Omega_y \approx 0$$

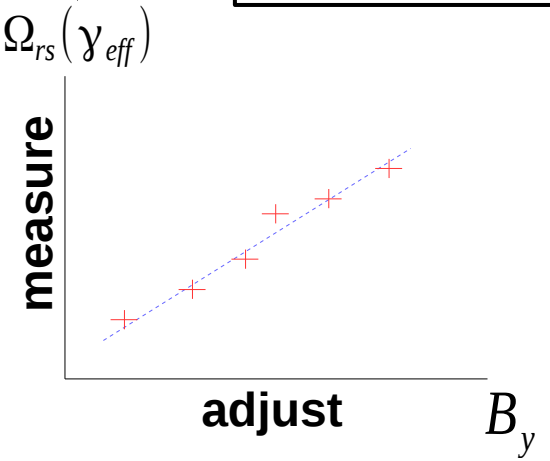
$$\vec{\Omega}_{EDM} = \underbrace{b_0\vec{\beta}\times\vec{B}}_{\vec{\Omega}^{B}_{EDM}} + \underbrace{b_1\vec{E}}_{\vec{\Omega}^{E}_{EDM}}$$

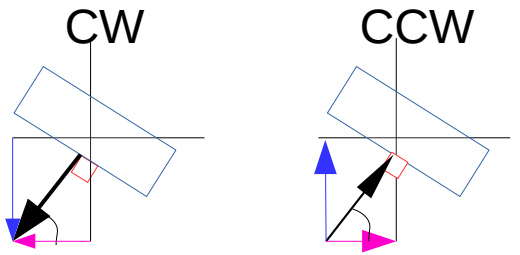
Calibration in the **rs** plane

fading effect

Cross-correlation







Geometry fixes $B_y : B_r$

reproduce error by reproducing **signal**