

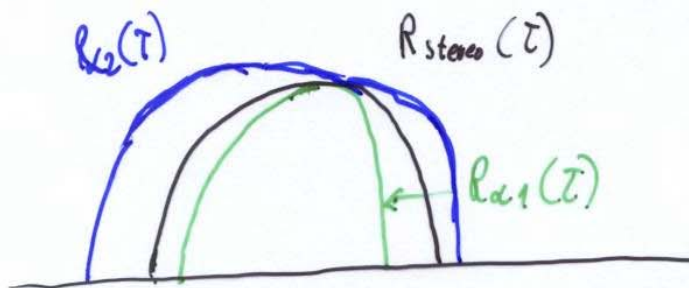
Magnetic Modelling Thomas Wiegelmann (St. Andrews)

$$\nabla \times \vec{B} = \alpha \vec{B}$$

$\beta \cdot \nabla \alpha = 0$ Here $\alpha = \text{constant}$ as first step

Input: 1) MDI - Data $B_z(x, y, 0)$

2.) 3D Stereoscopic Images (Loops, Aschwanden et al 1999)



MDI $B_z(x, y, 0)$ gives no information regarding α

Calculate loops for different α and compare with stereoscopic images

$$C(\alpha) = \int_0^L (R_\alpha(t) - R_{\text{stereo}}(t))^2 dt$$

and minimize $C(\alpha)$ with respect to α