

ACTIVE MAGNETIC SHIELDING

GRZEGORZ WYSZYŃSKI

UNIWERSYTET JAGIELLOŃSKI
EIDGENÖSSISCHE TECHNISCHE HOCHSCHULE ZÜRICH

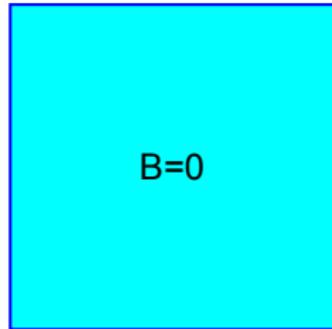


UNIA EUROPEJSKA
EUROPEJSKI FUNDUSZ
ROZWOJU REGIONALNEGO

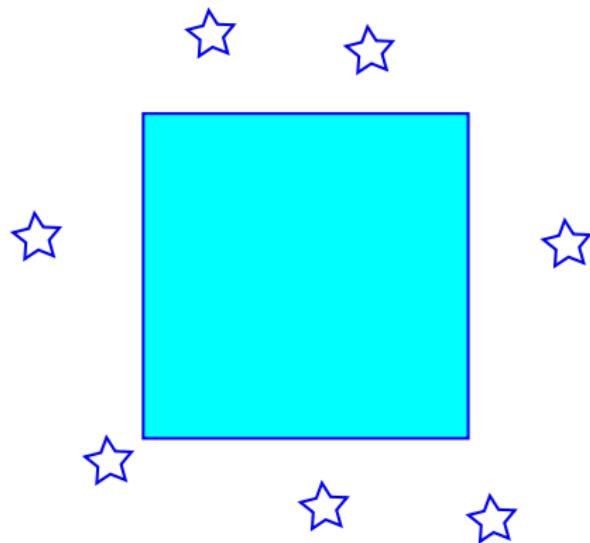


JUNE 7, 2013

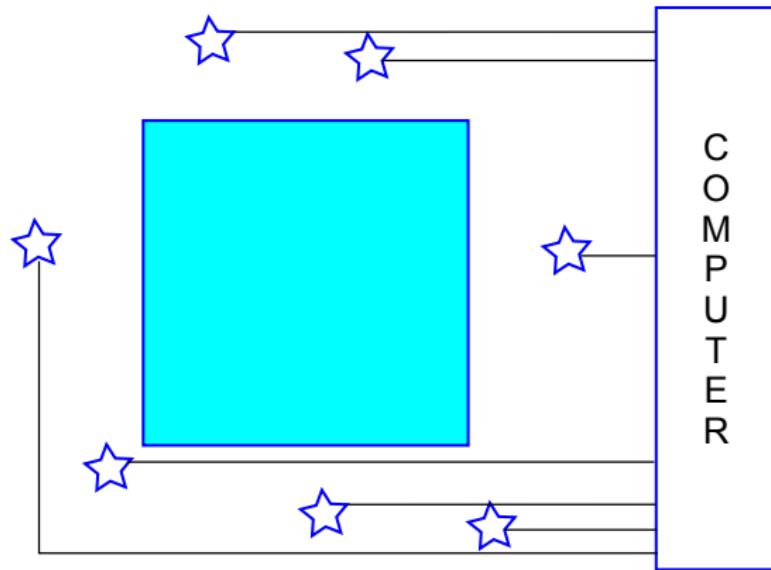
HOW DOES IT WORK?



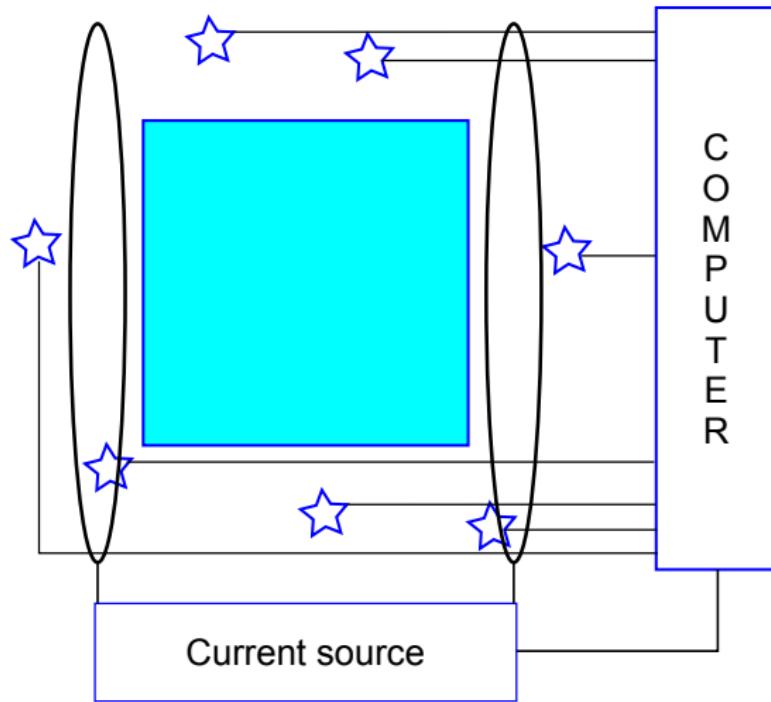
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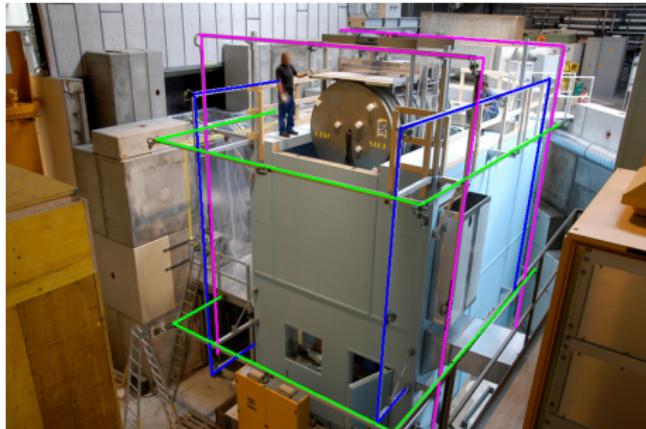
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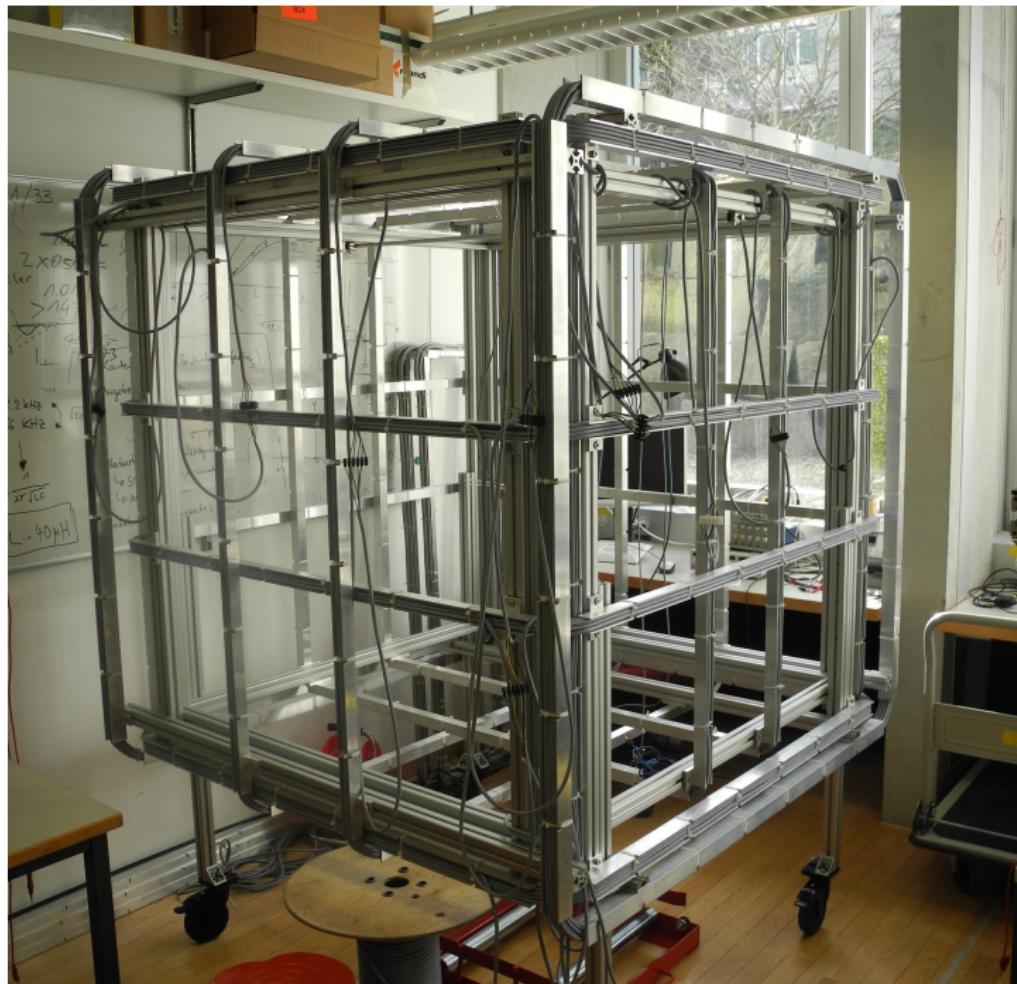
HOW DOES IT WORK?



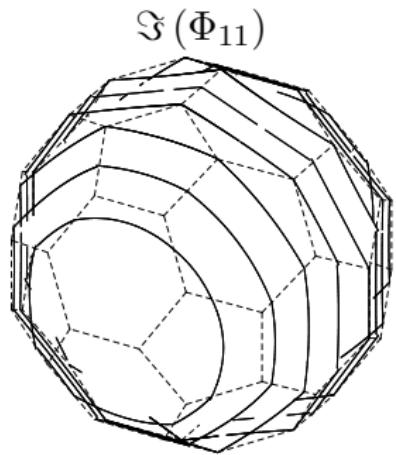
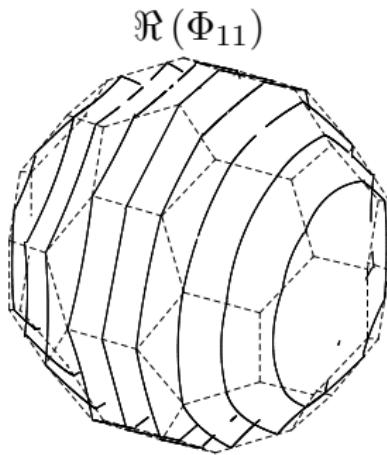
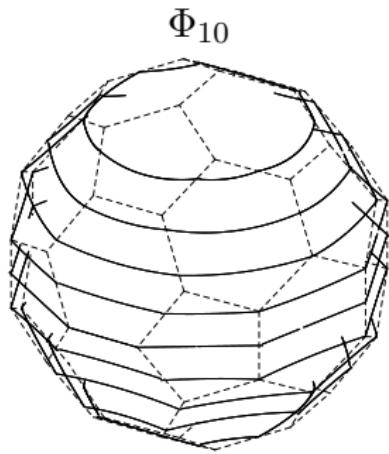
SFC SYSTEM @ nEDM PSI

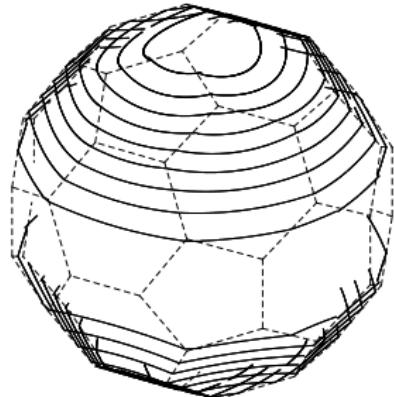
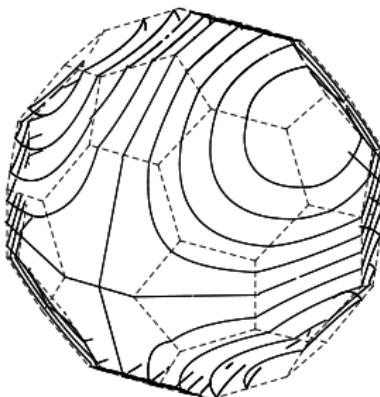
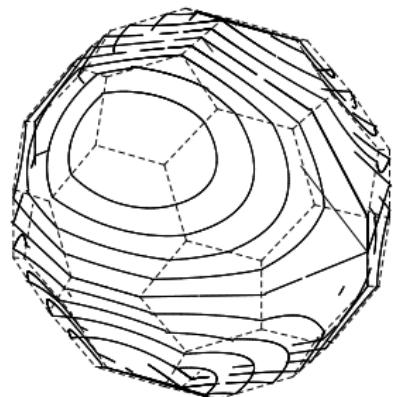
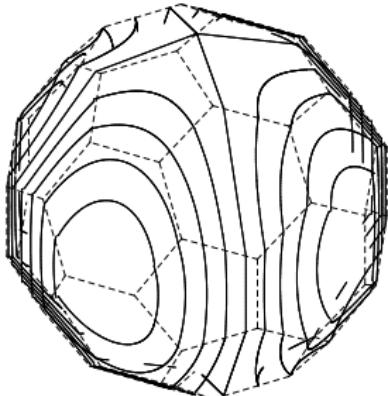


- Three square coil pairs connected to software calculating currents based on readouts from vector Fluxgate magnetometers
- Supression of magnetic field by 3 times



SECOND IDEA - ORTHOGONAL SET OF COILS



Φ_{20}  $\Re(\Phi_{21})$  $\Im(\Phi_{21})$  $\Re(\Phi_{22})$  $\Im(\Phi_{22})$ 