Dipole model
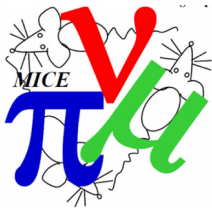
Paolo Franchini
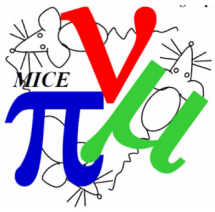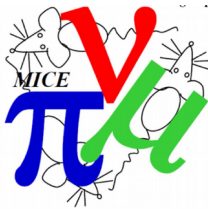
Measurements

- Nikhef 3-axis probe (calibrated)

- Hirst 1-axis probes (1 calibrated, 1 re-calibrated)

- First measurements: D2 in the DSA

- Second survey: D1 in the synch

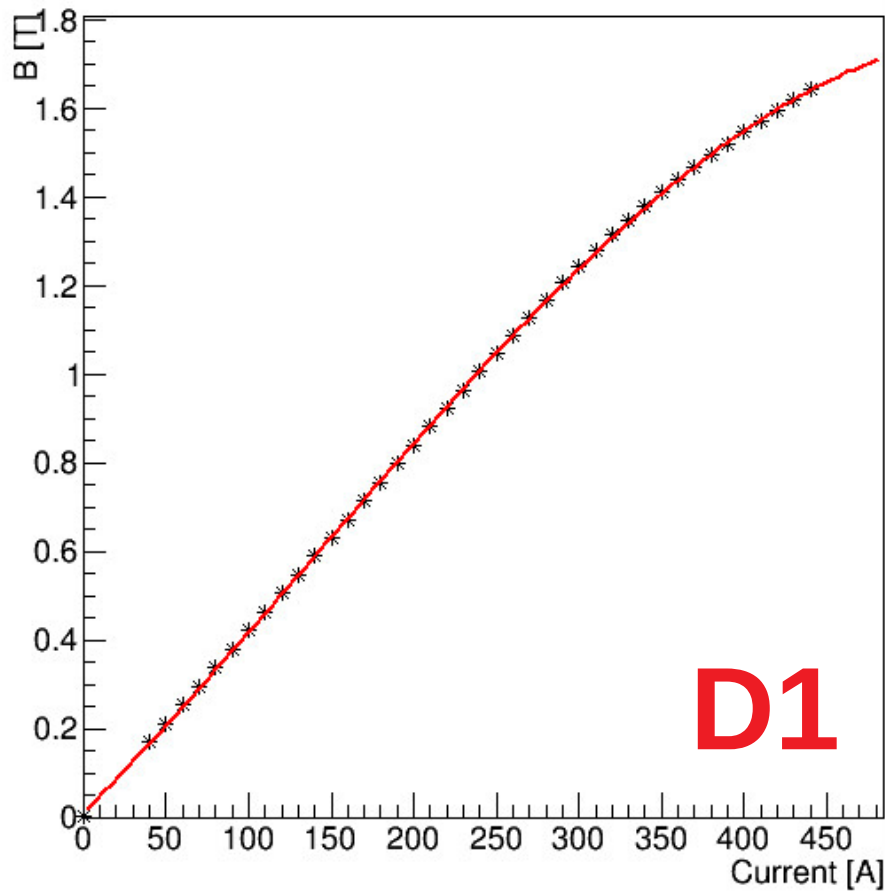- *Thanks to all the people that made this happen (Henry, Craig B., Tom, …)*
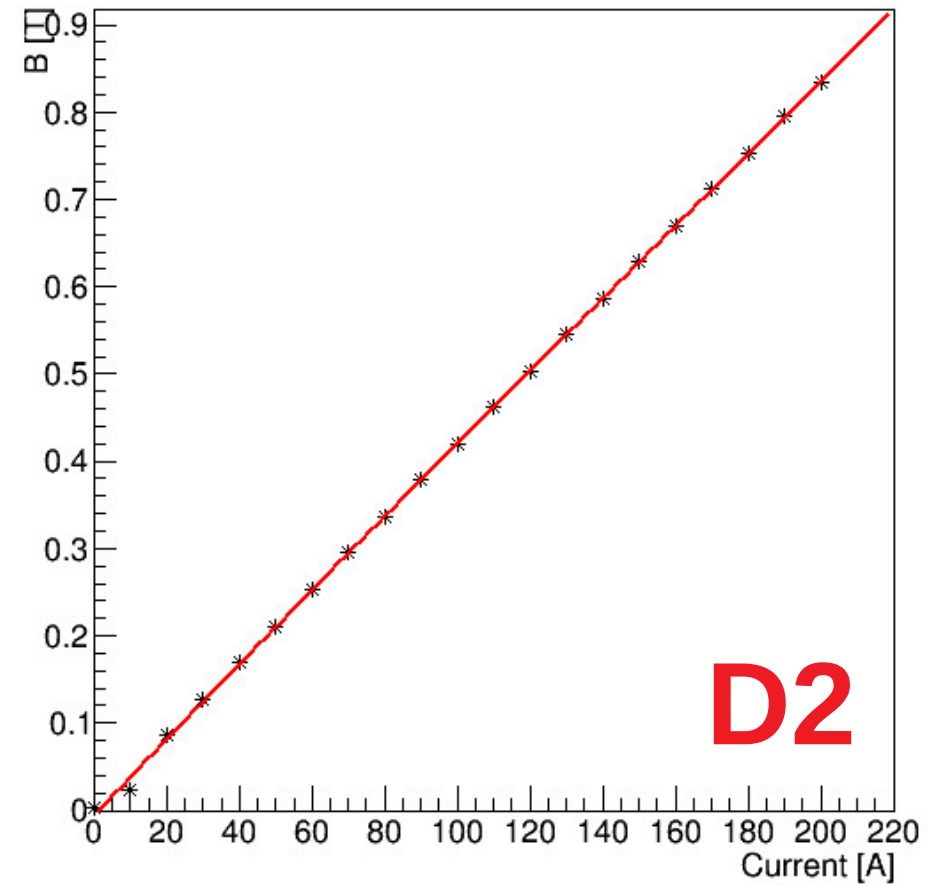
Measurements

D1

D2

Measurements and fit

Magic spreadsheet corrections

- Corrections lower than |2%|
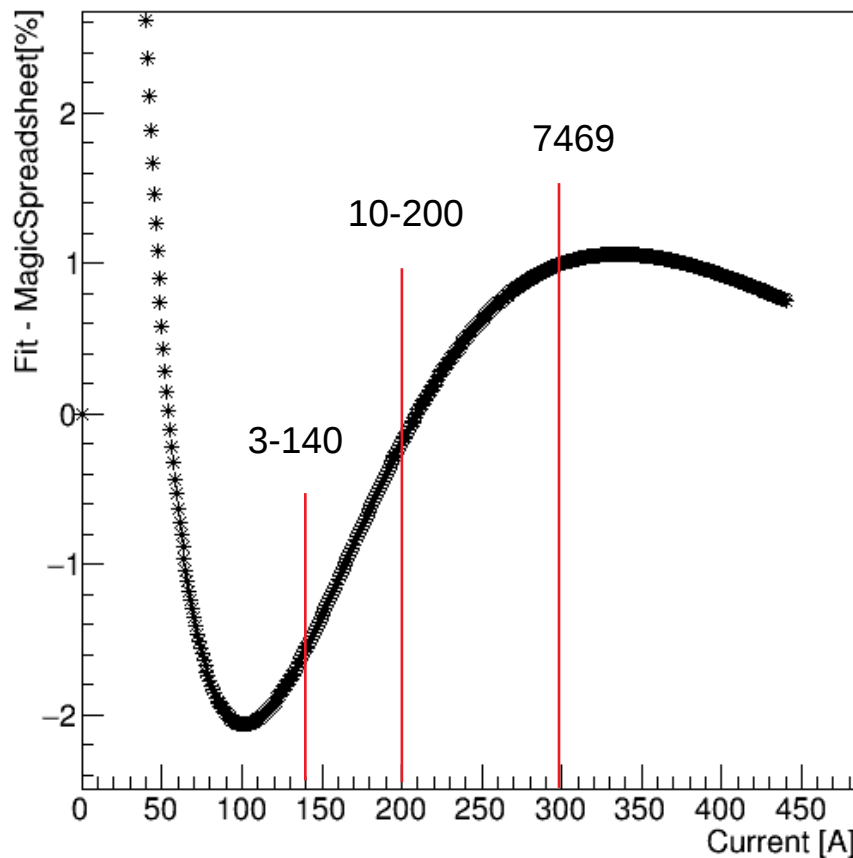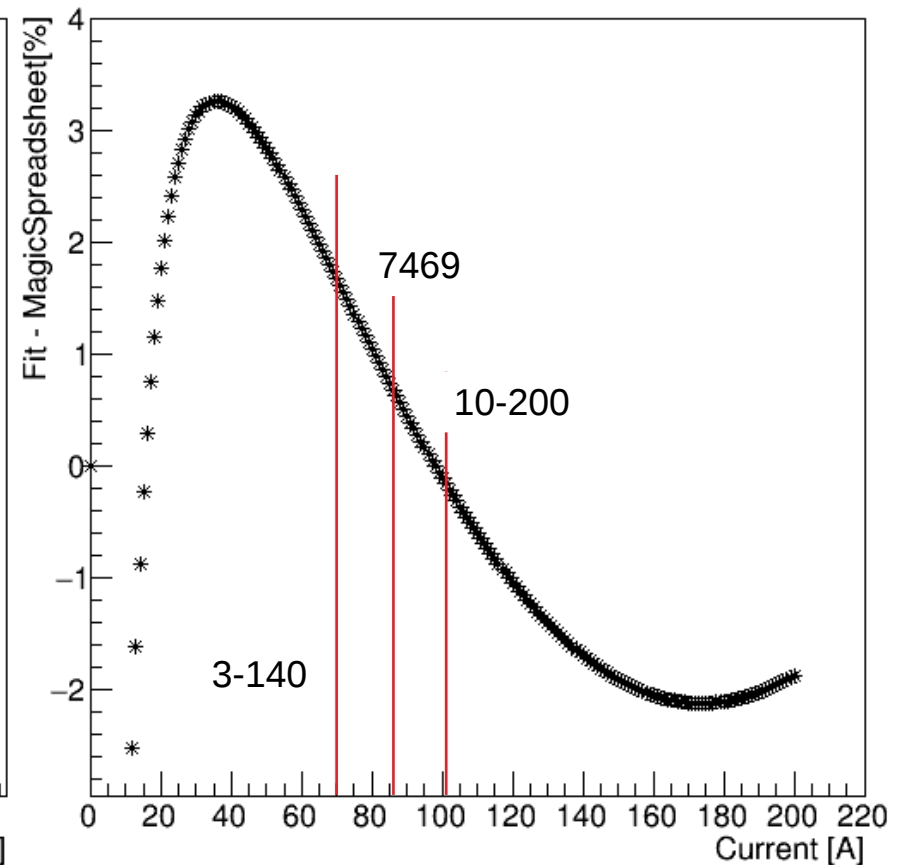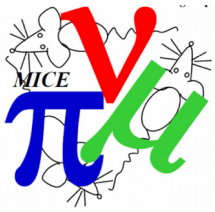
Final fits

$$B = 0.00966745 + 0.00382304I + 3.41212 \cdot 10^{-6}I^2 - 8.34544 \cdot 10^{-9}I^3$$

$$B = -0.00503767 + 0.00436283I - 1.30544 \cdot 10^{-6}I^2 + 2.46632 \cdot 10^{-9}I^3$$

Conclusions

- MICE Note #520

- Produce G4BL input settings

- Few more corrections could come from other position surveys of the dipoles