



# Spectrometer Solonoid 2 Fringe Field Measurements

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#### Introduction

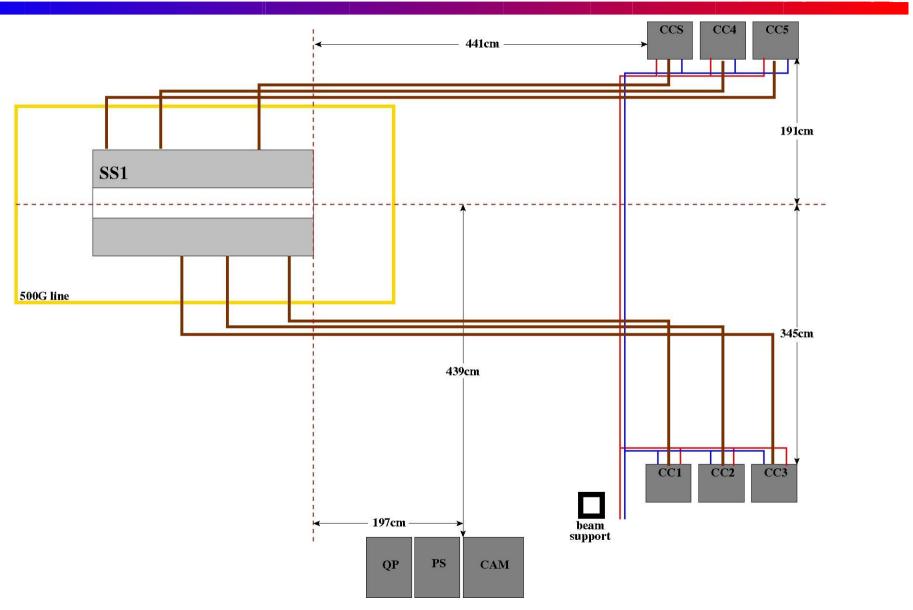


- 3-axis Hall probe hand held
  - · x: beam axis
  - y: horizontal
  - · z: vertical
- coordinate origin at face of magnet
- performed by Maria Leonova
- solenoid and flip modes, 240MeV/c
- beam axis at 150cm
- only C&M rack closed
- position/B errors: +-1cm/+-1G



### Wang NMR, Layout ILLINOIS INSTITUTE OF TECHNOLOGY



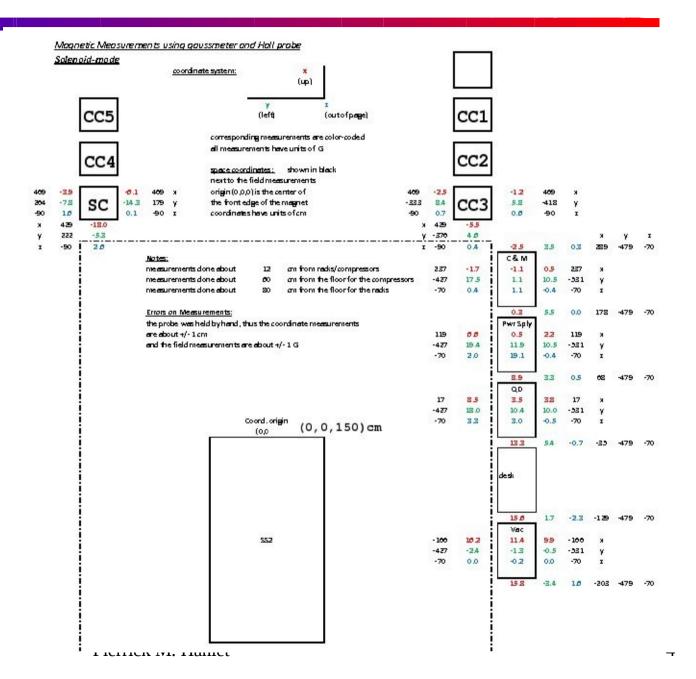




## SS2 Solenoid Mode ILLINOIS INSTITUTE OF TECHNOLOGY





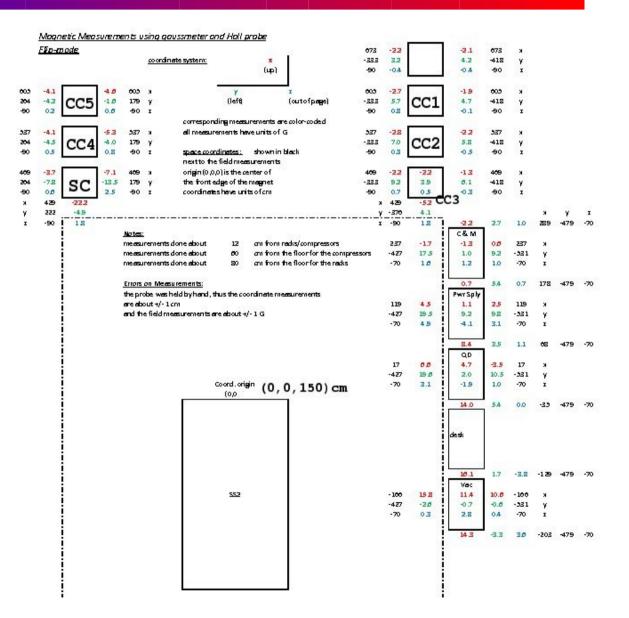




## SS2 Solenoid Mode ILLINOIS INSTITUTE OF TECHNOLOGY









#### **Conclusions**



- measurements performed
- errors acceptable
- need models for comparison
  - \* will try 2D
  - would like 3D to confirm R9 measurements
- further measurements can be made in May when making field maps