Co-alignment of EIS spectra with magnetograms

Ken Dere
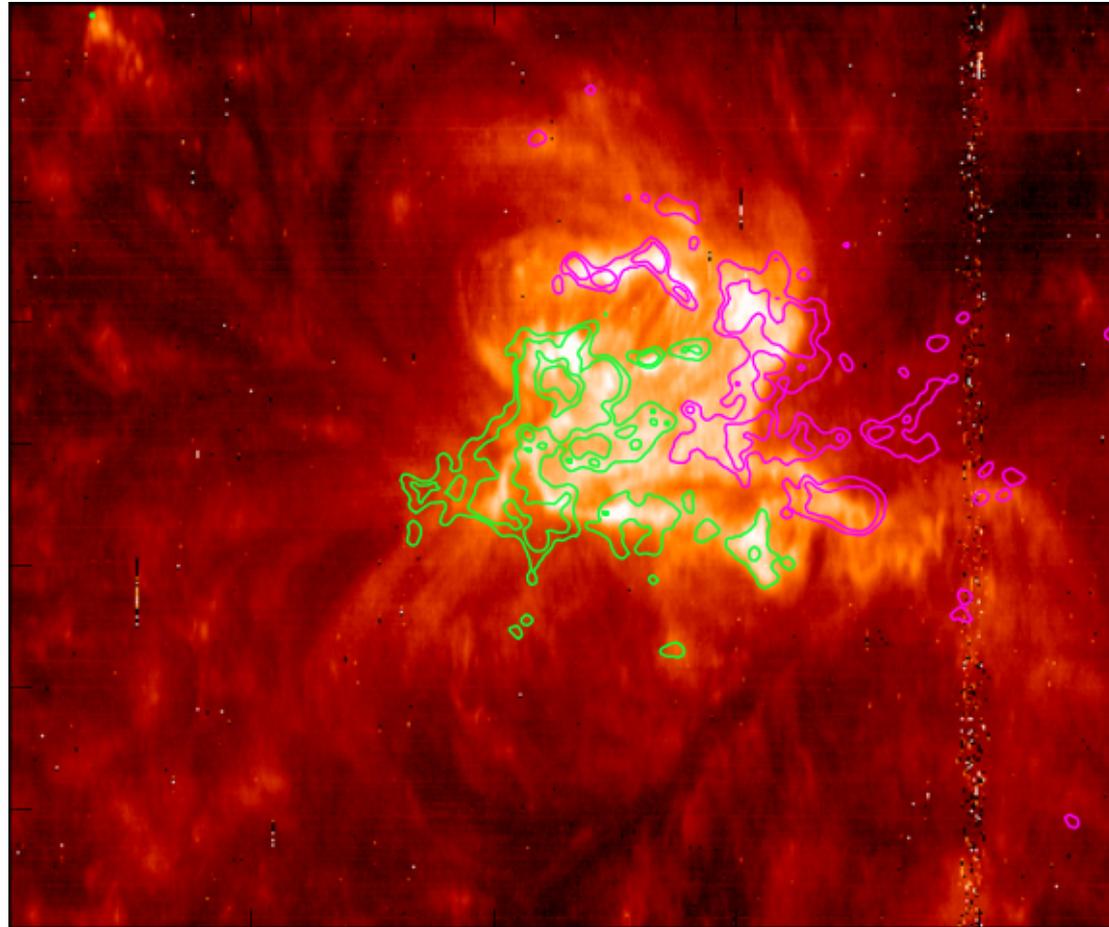GMU
EIS team meeting
MSSL – May 14,15 2008
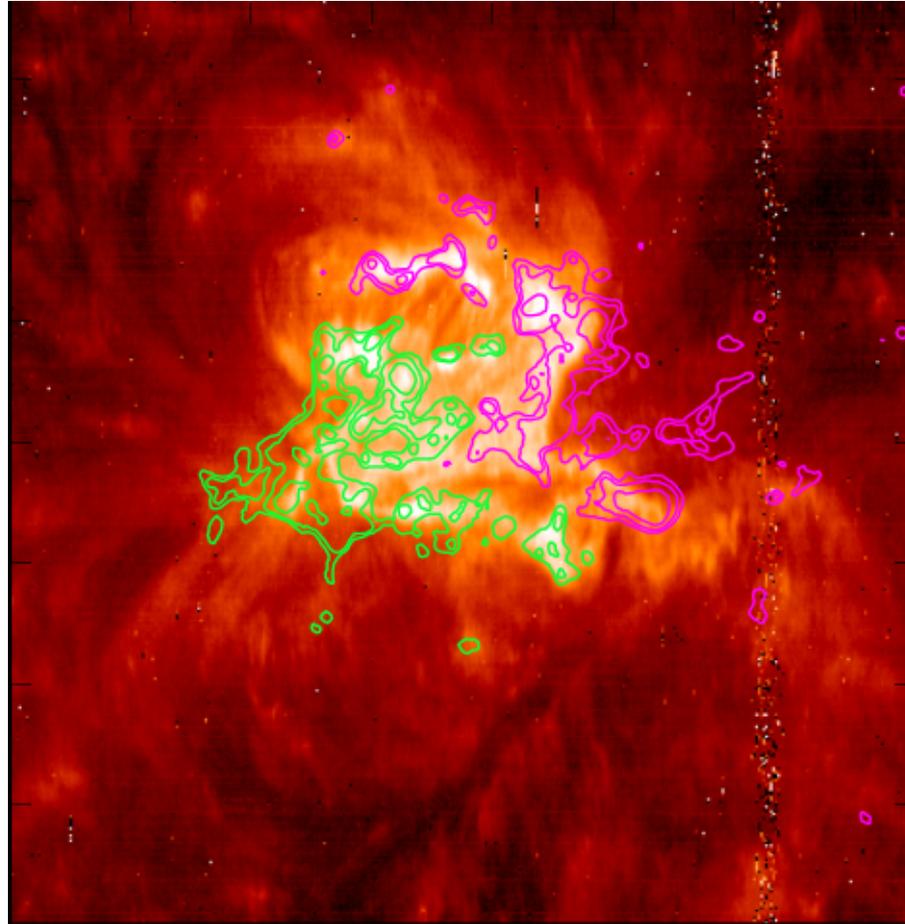
Overview

- Co-alignments made to:
  - MDI full disk magnetograms
  - MDI high resolution magnetograms
  - SOT narrow band magnetograms
  - SOT spectropolarimeter magnetograms
- EIS
  - large FOV
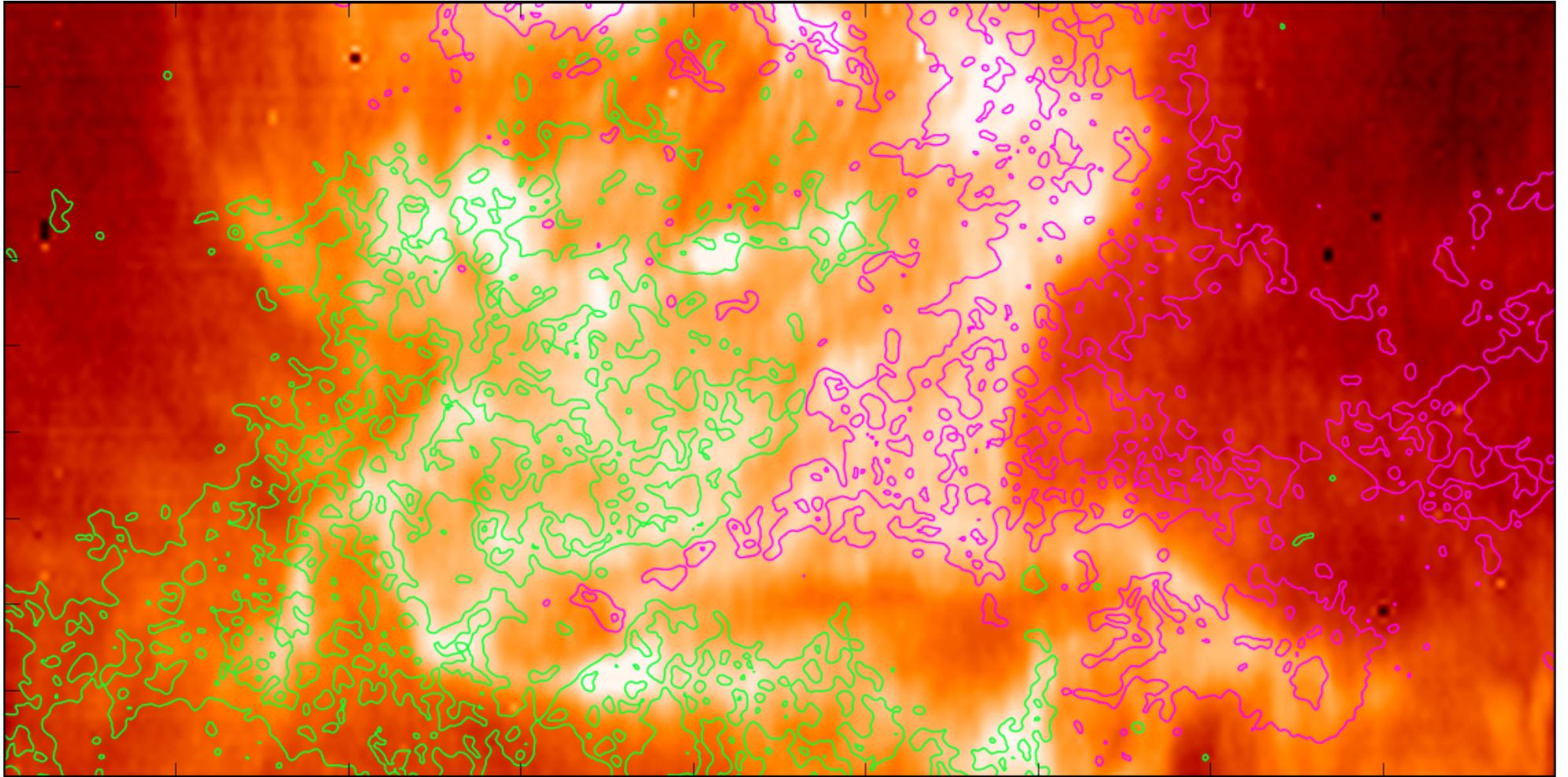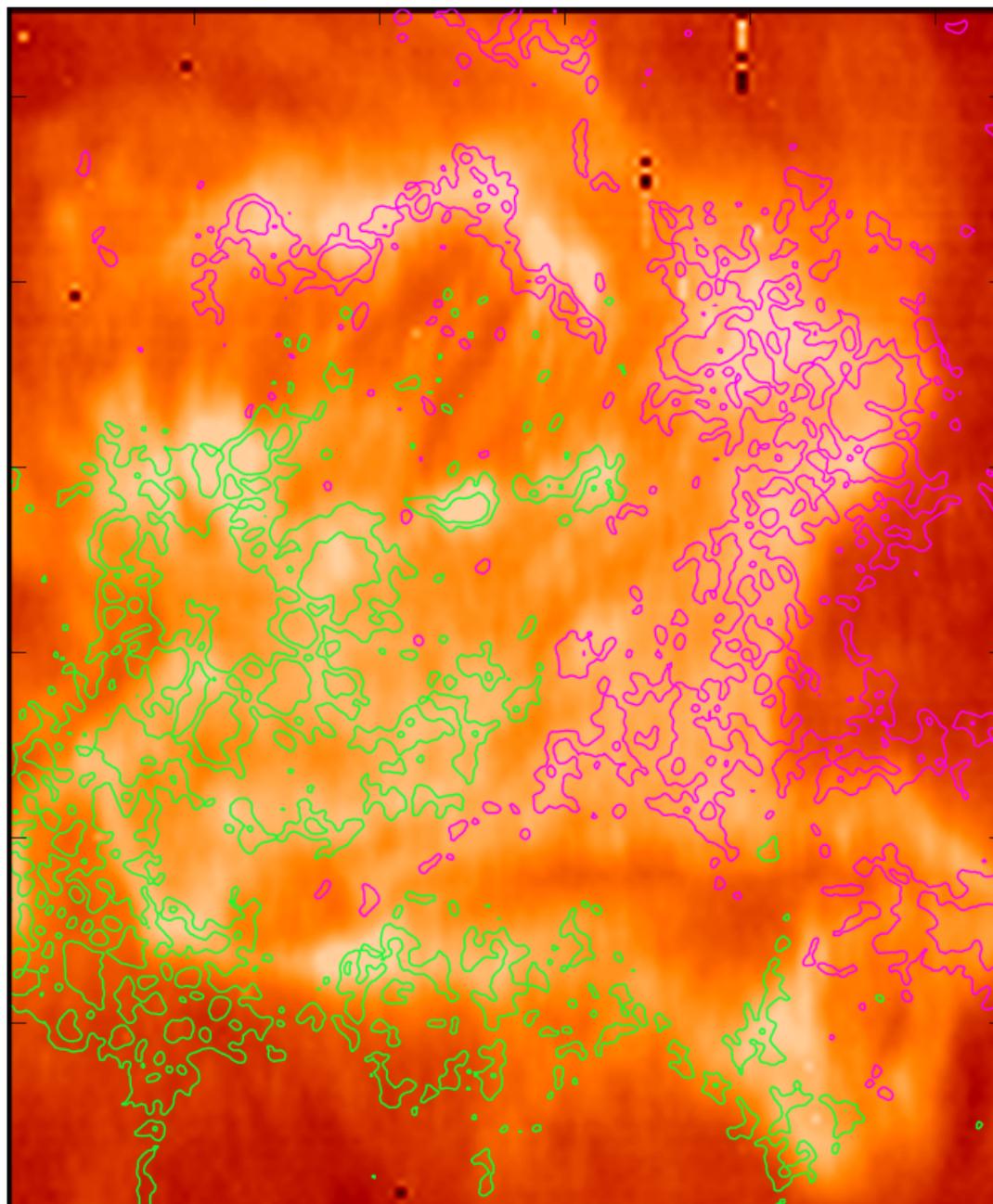 - He II 256

Active region – Dec. 11, 2007
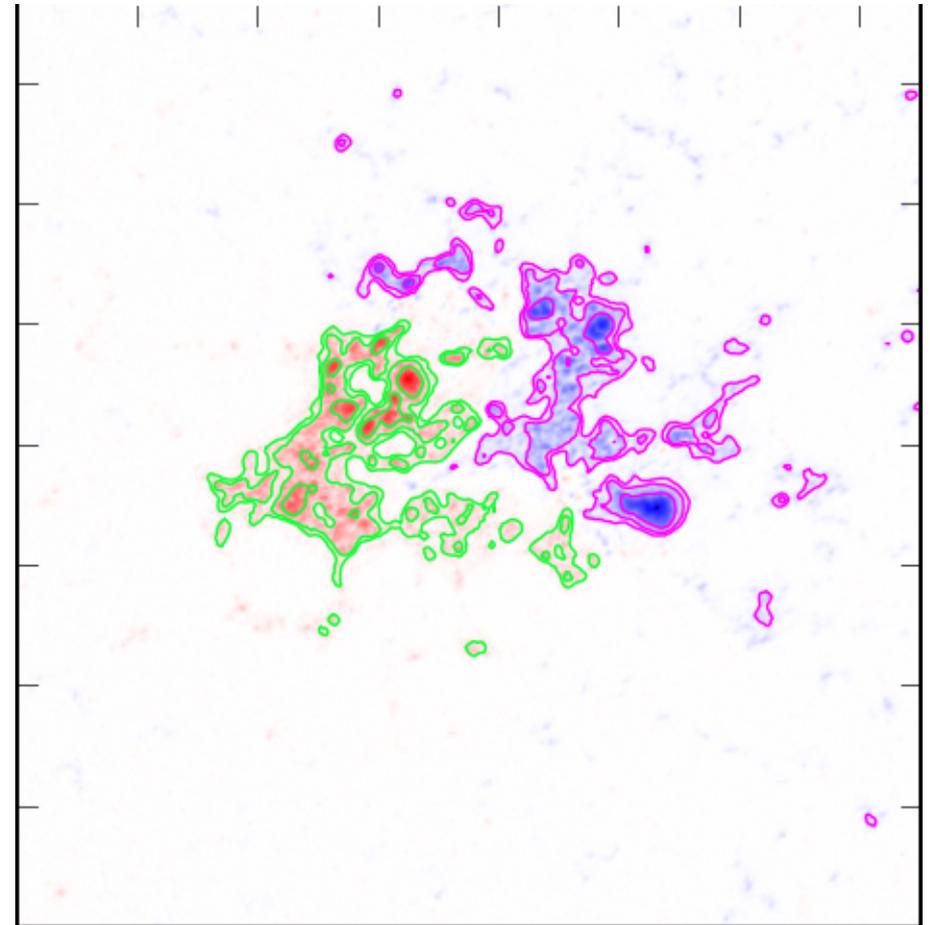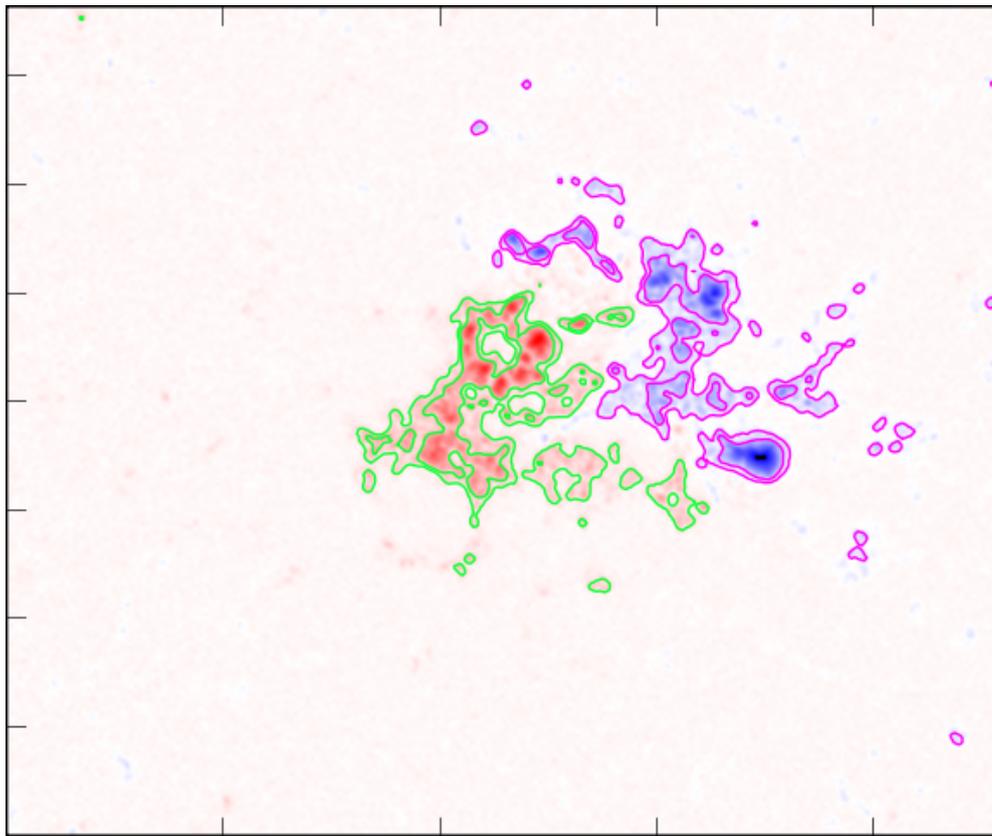## MDI full disk

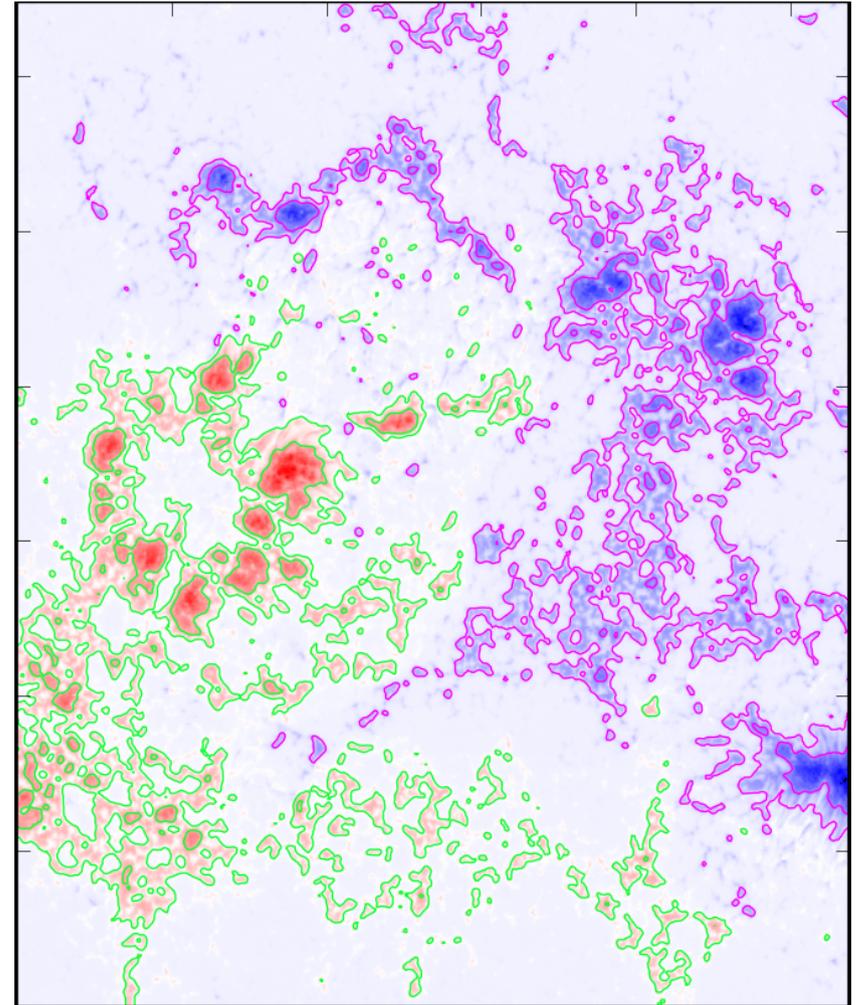# Dec 11 cont. - MDI hi res
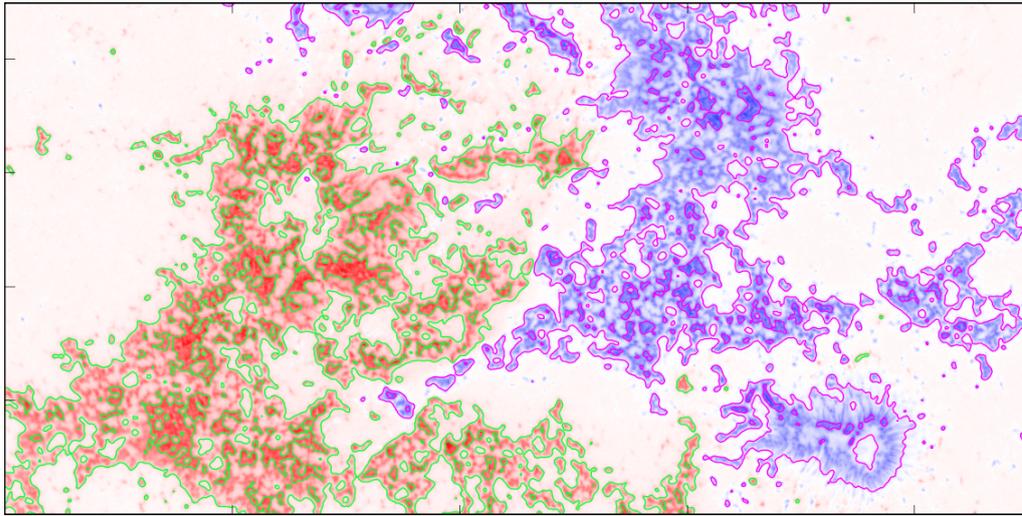
Dec 11 cont. - MDI fg
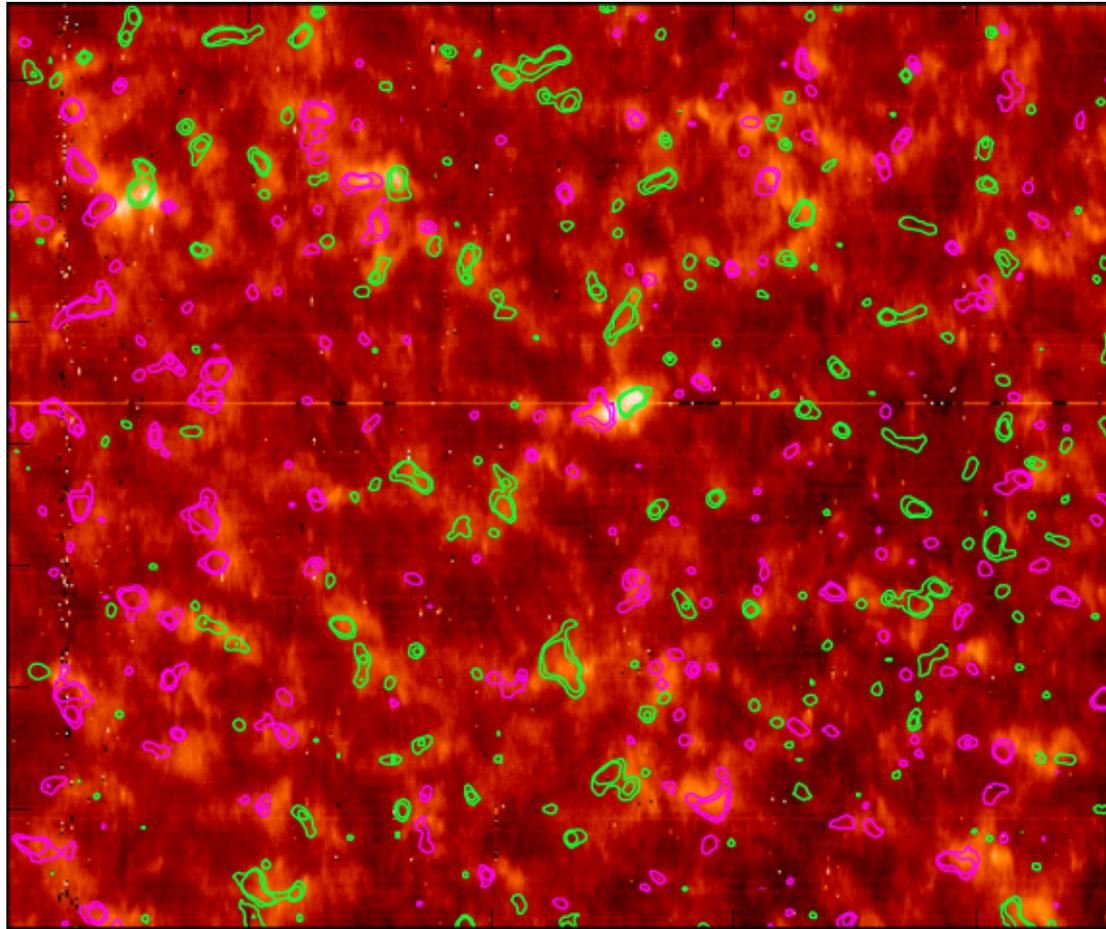
Dec. 11 cont. - sp
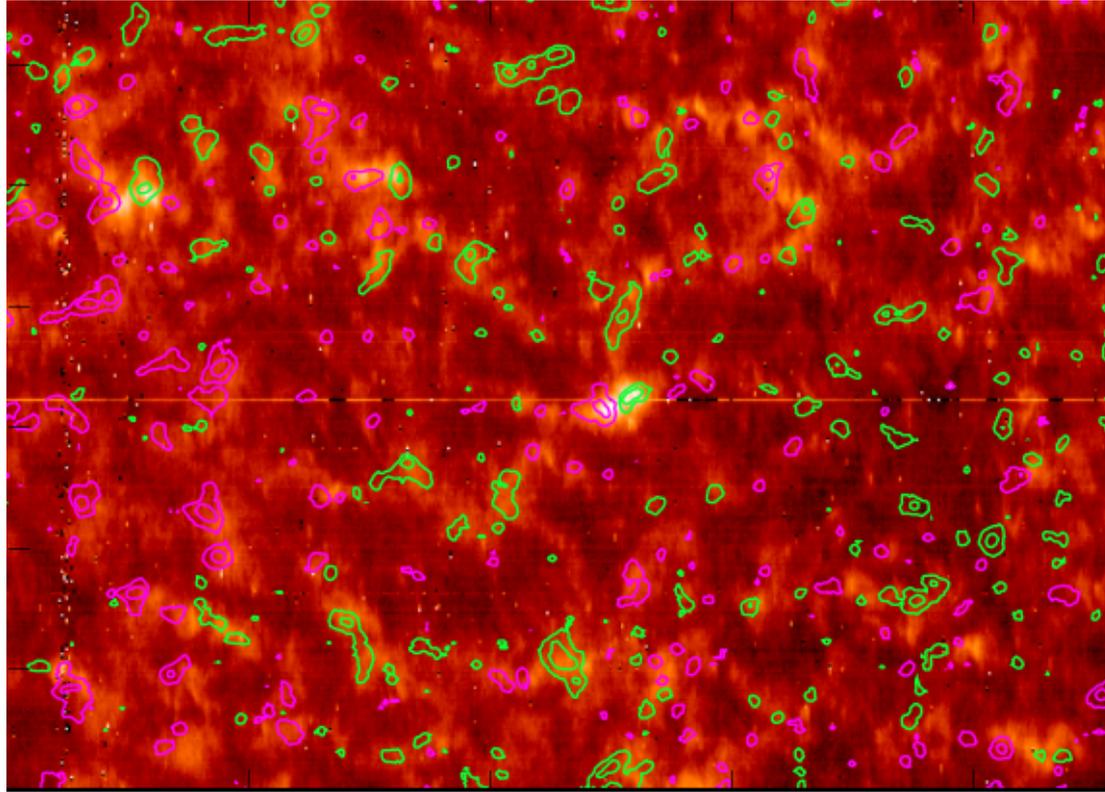
MDI – fd (left) hires (right)

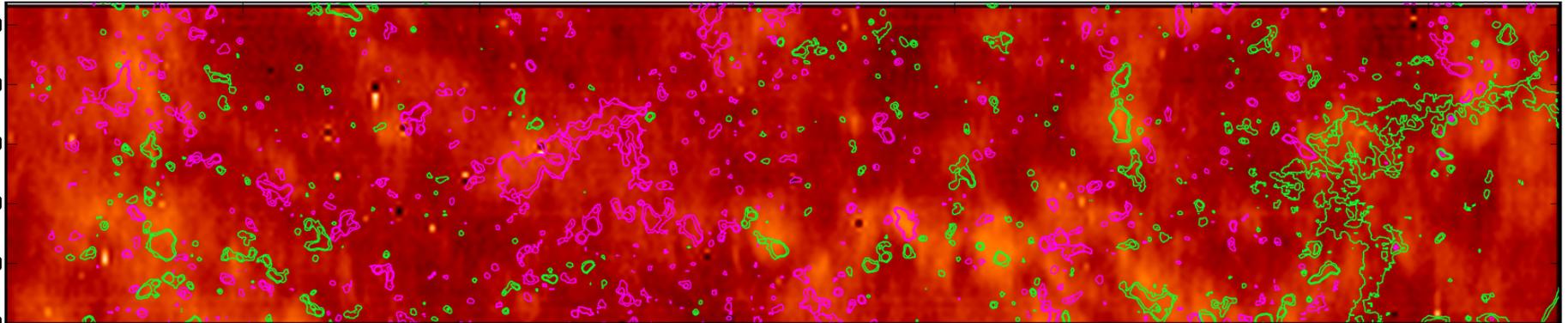# FG (left) - SP (right)

Quiet Sun – Sept. 25
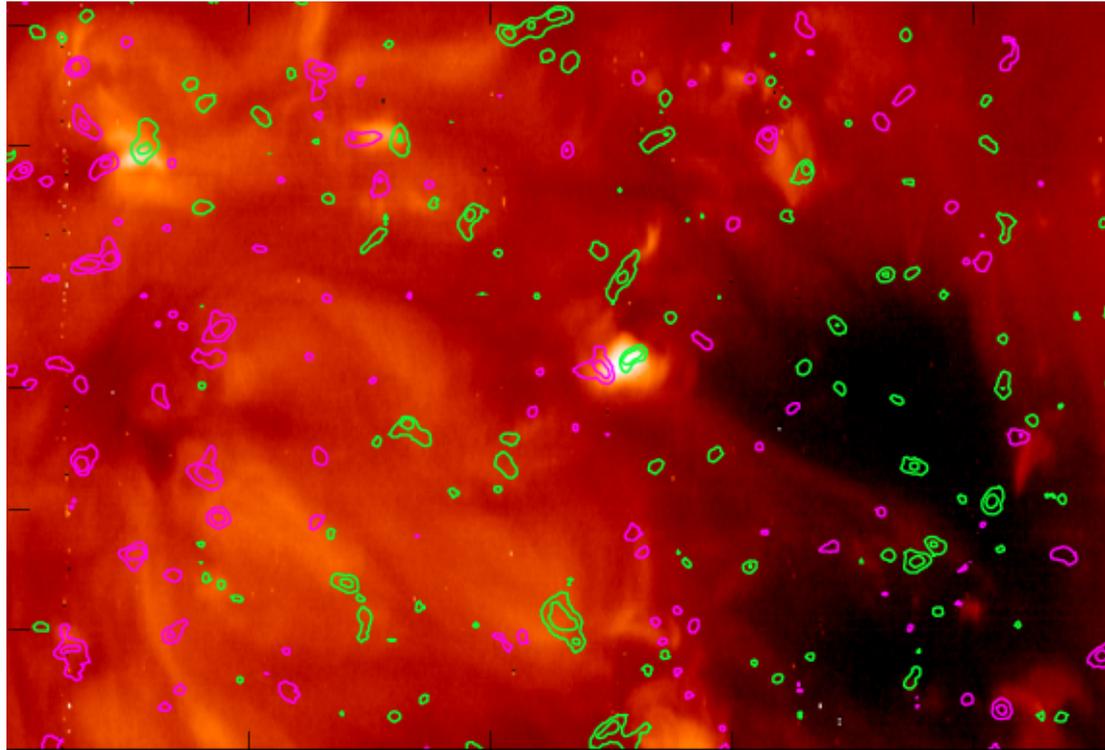# MDI full disk

QS 9/27 – MDI hires

QS 9/27 - fg

QS 9/27 – Fe XII vs MDI hires

Summary

Magnetogram	# of Alignments	X offset (")	Y offset (")
MDI FD	11	6.5 ± 2.5	-16 ± 4
MDI HiRes	3	9 ± 4	-18 ± 5
FG	5	3 ± 8	-23 ± 5
SP	3	-7 ± 20	-21 ± 7

Comments

- A real lack of FG and SP data co-spatial with EIS

- MDI hi res data is usually the best bet

- EIS data for 2007 March – July 16 needs to be reprocessed to correct YCEN

- SP data is not provided with the usual fits header information - I have guessed at it.