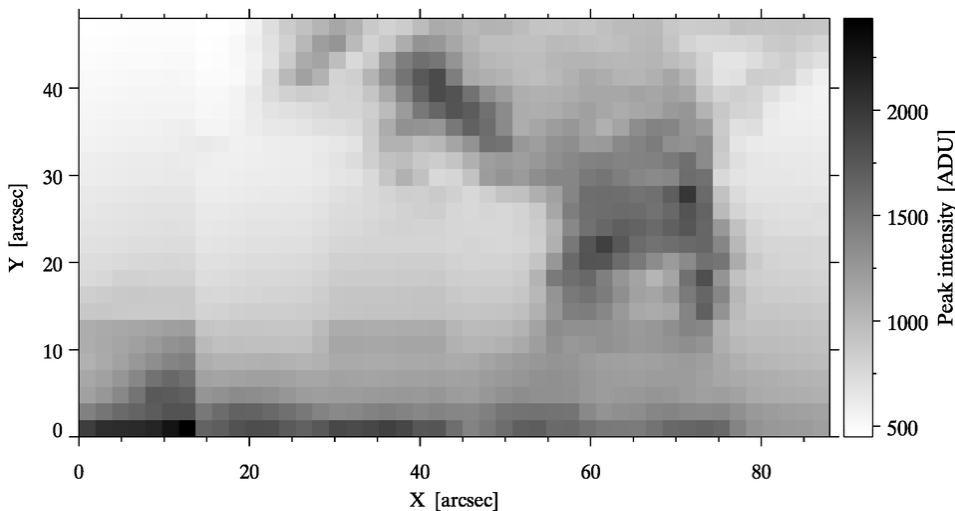


Case study of magnetic field and dynamics in a prominence

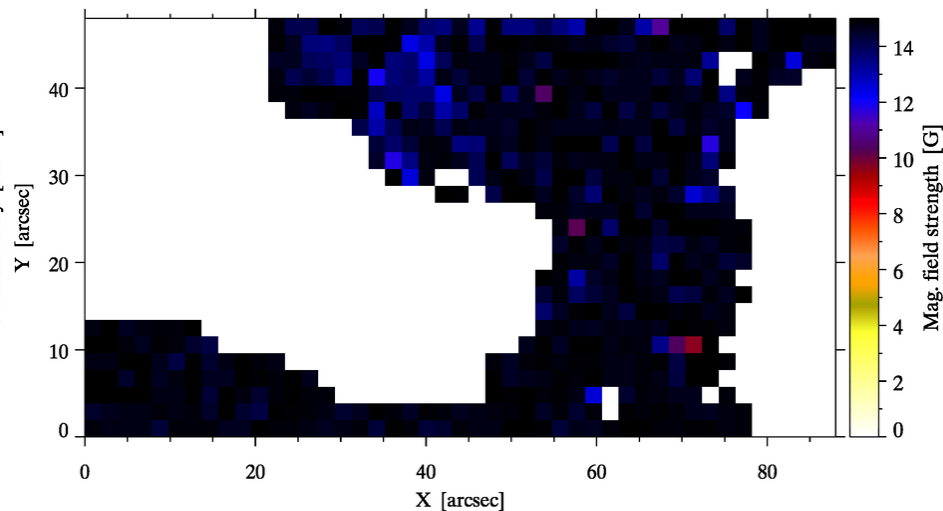
2 August 2014

2014-08-02 binning $2'' \times 1''$ (9 px \times 1 px)

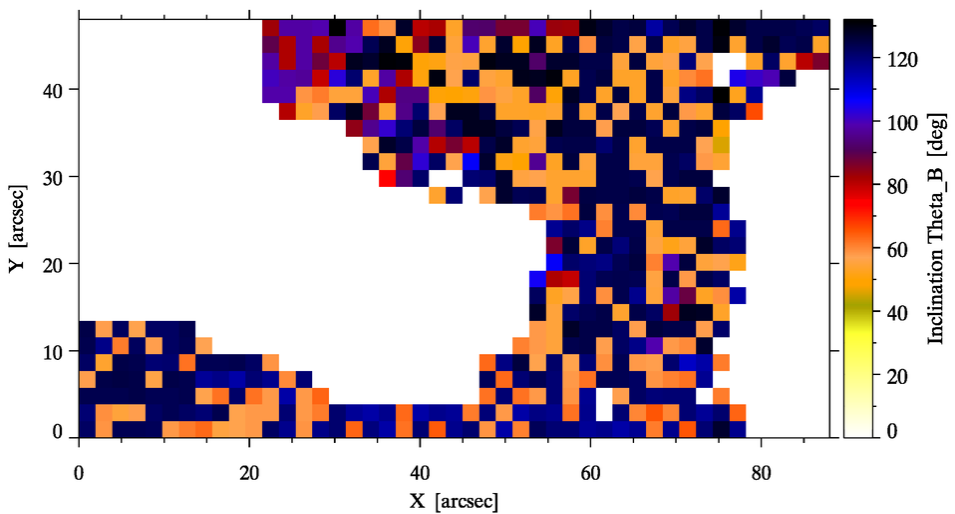
Peak intensity



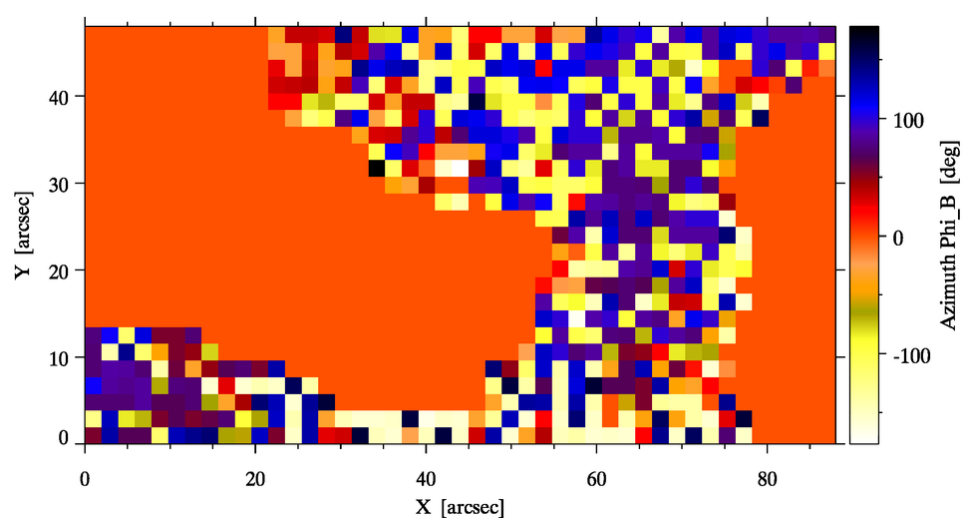
Mag. field strength



Inclination LOC RS

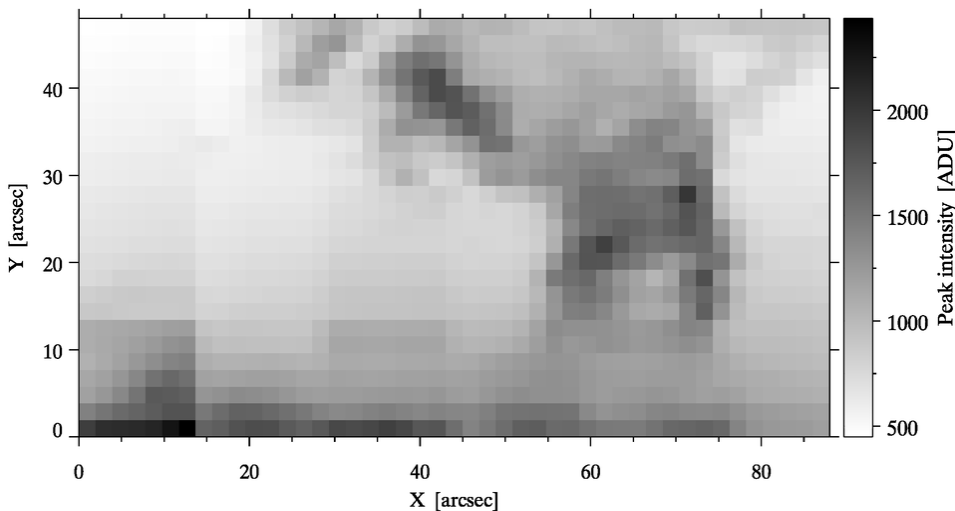


Azimuth LOC RS

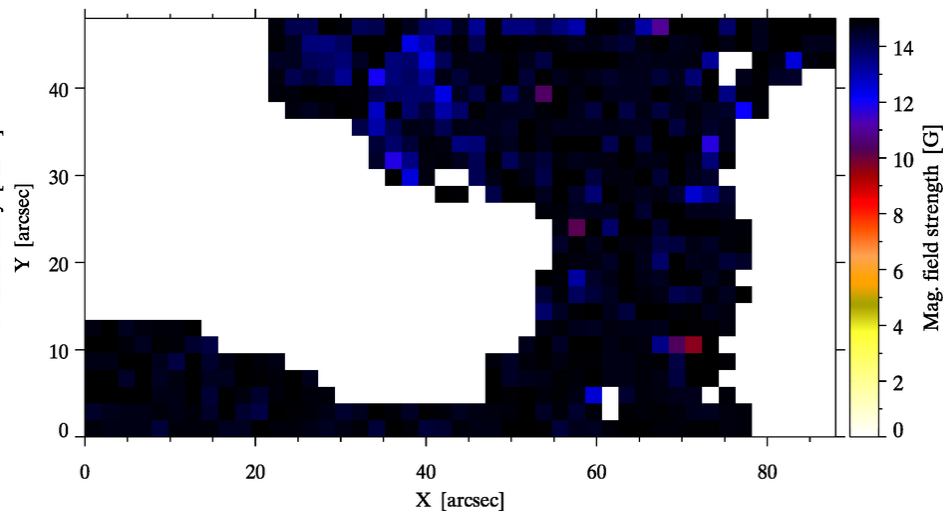


2014-08-02 binning $2'' \times 1''$ (9 px \times 1 px)

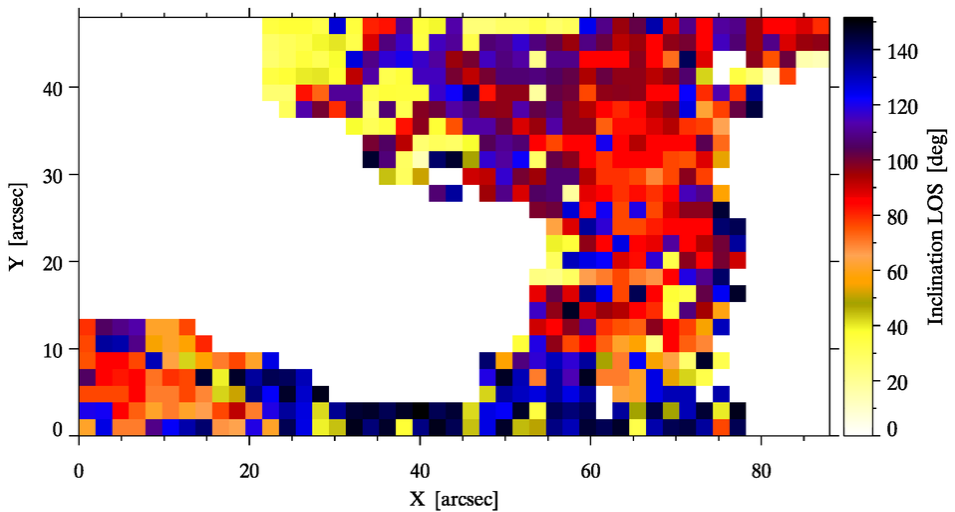
Peak intensity



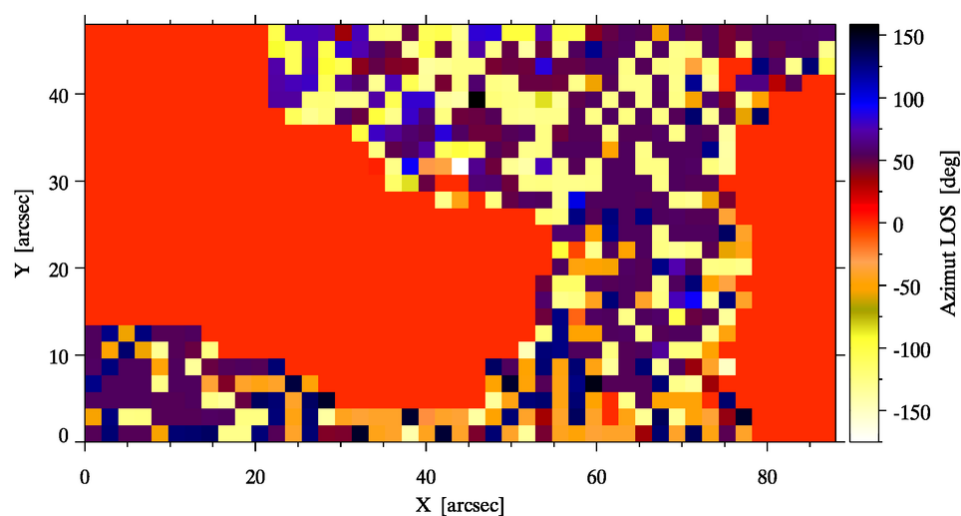
Mag. field strength



Inclination LOS RS

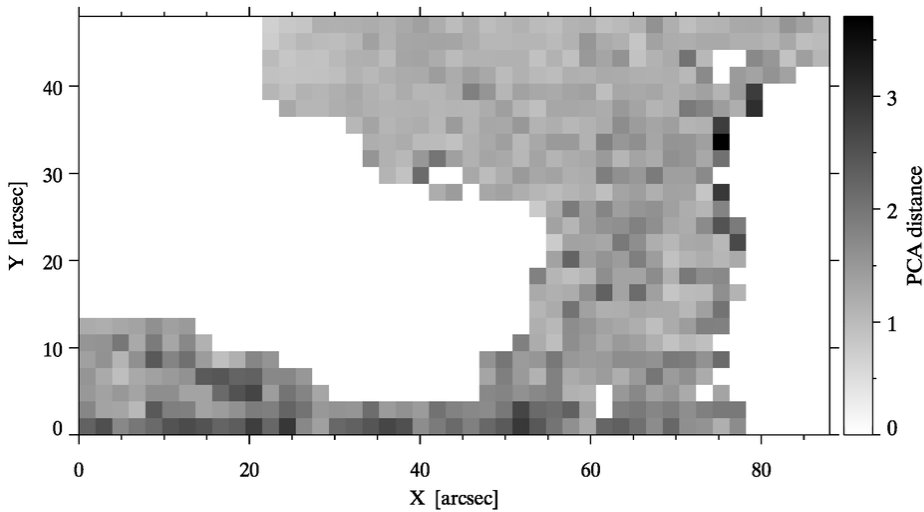


Azimuth LOS RS

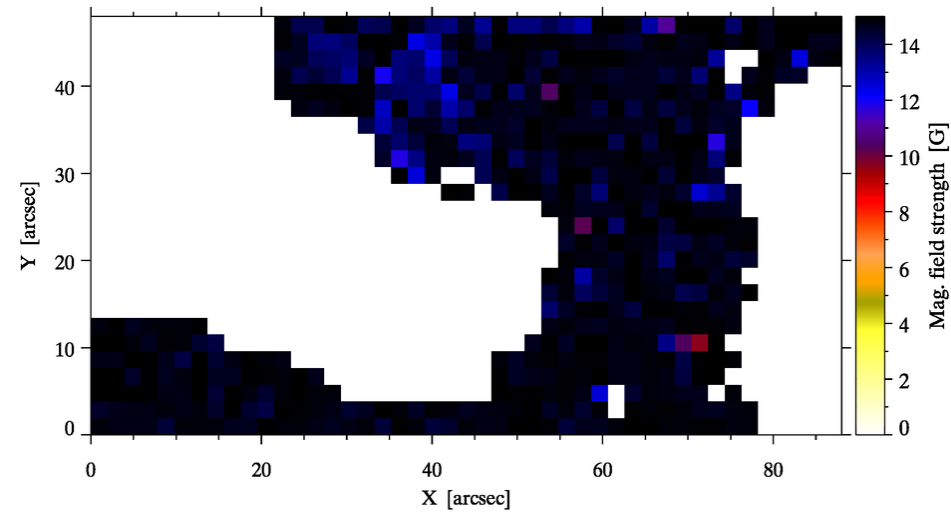


2014-08-02 binning 2" \times 1" (9 px \times 1 px)

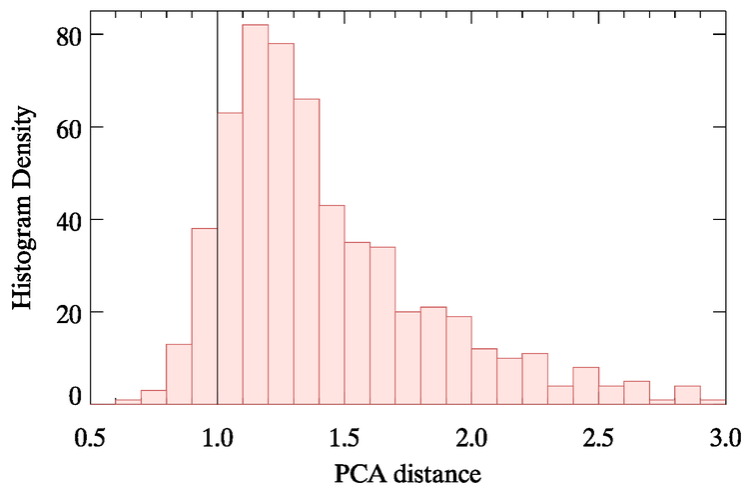
PCA distance



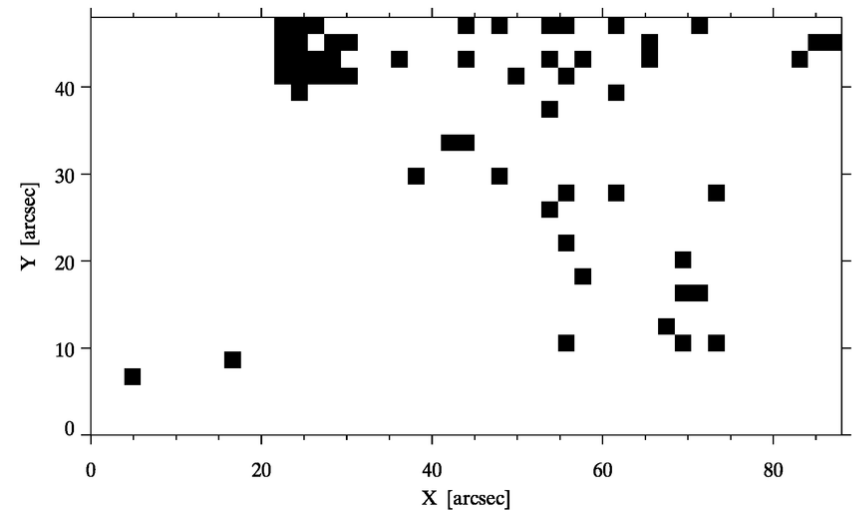
Mag. field strength



PCA distance

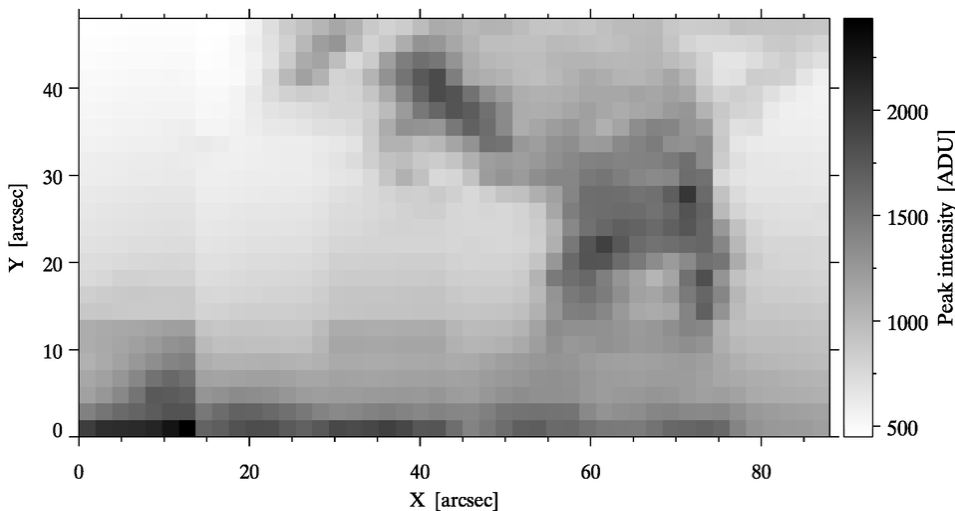


PCA distance < 1

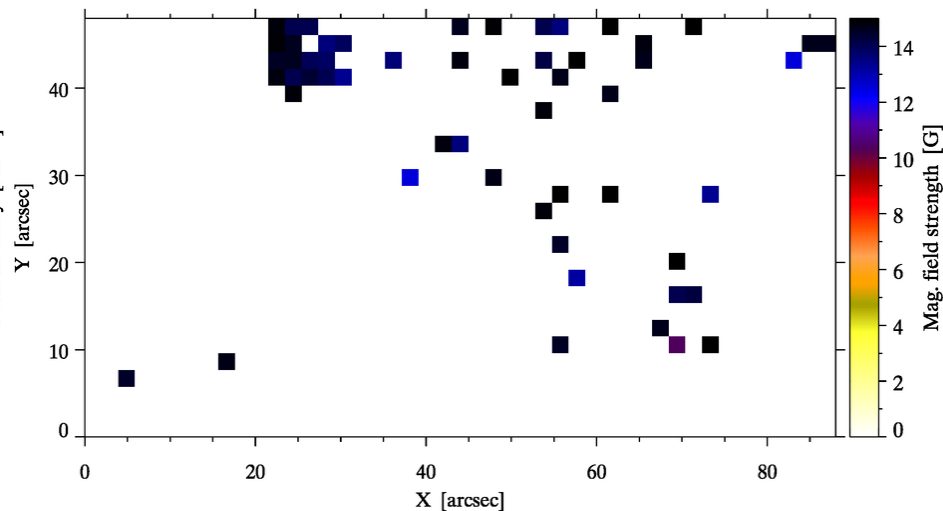


2014-08-02 binning $2'' \times 1''$ (9 px \times 1 px)

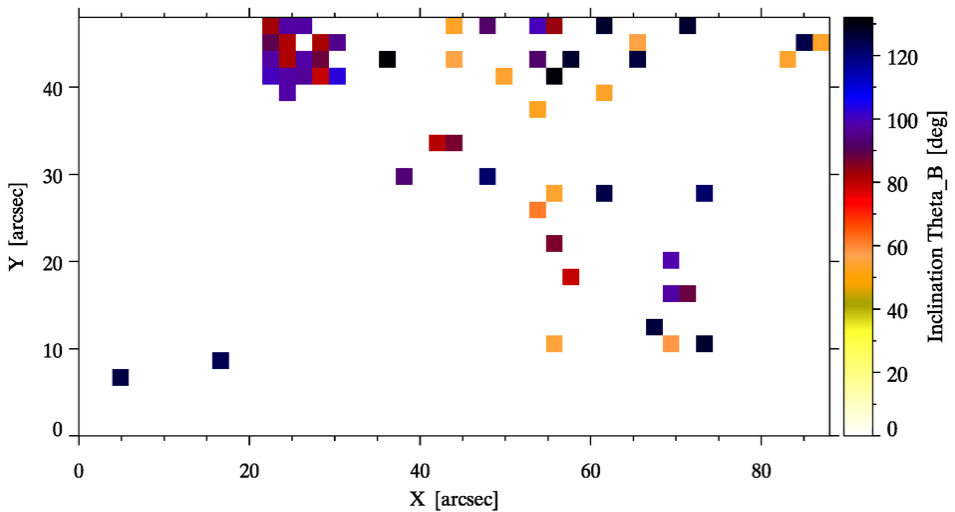
Peak intensity



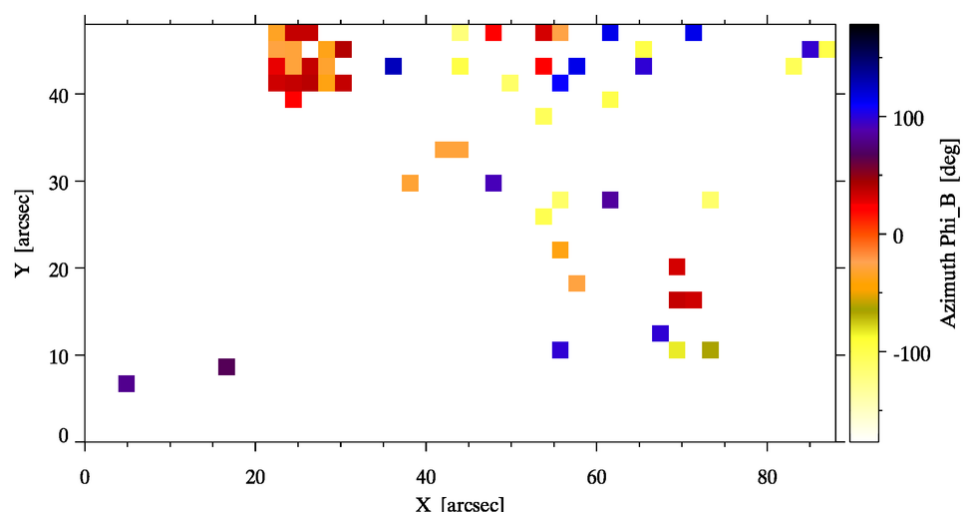
Mag. field strength at PCA < 1



Inclination LOC RS at PCA < 1

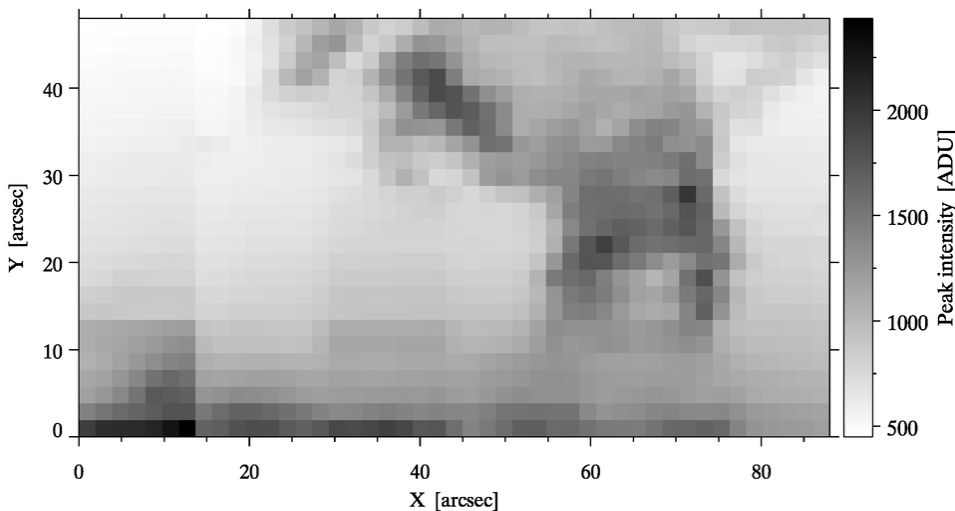


Azimuth LOC RS at PCA < 1

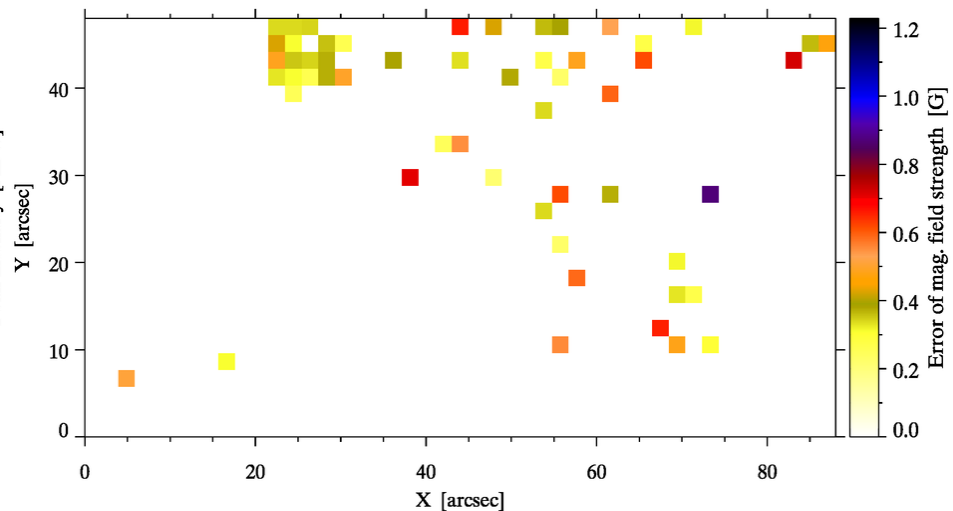


2014-08-02 binning $2'' \times 1''$ (9 px \times 1 px)

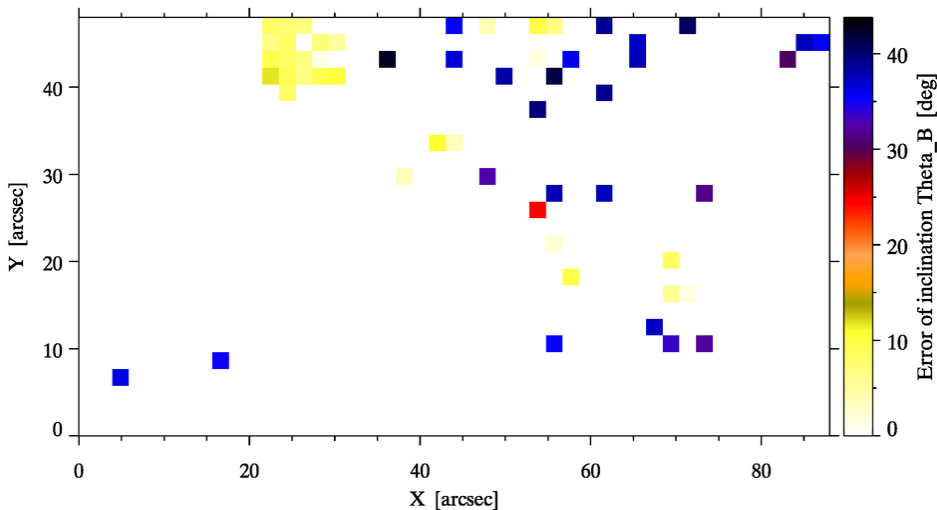
Peak intensity



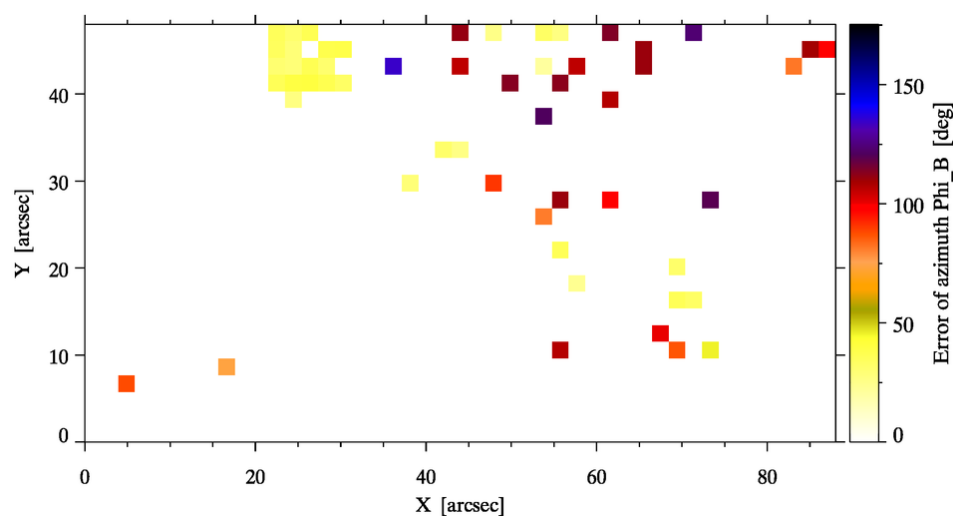
Errors of mag. field strength at PCA < 1



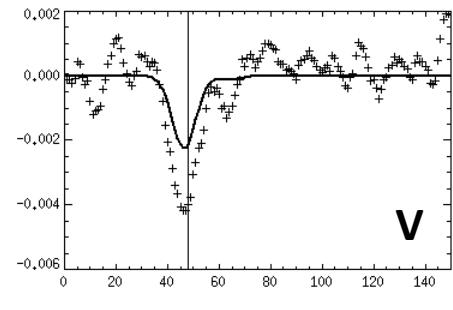
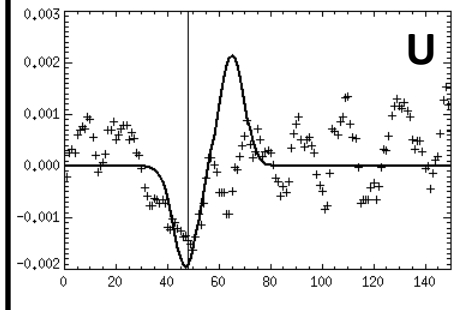
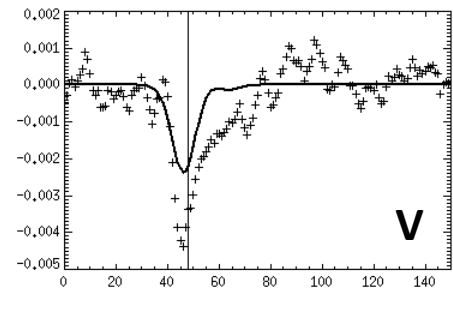
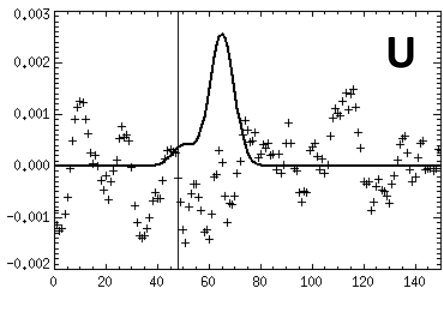
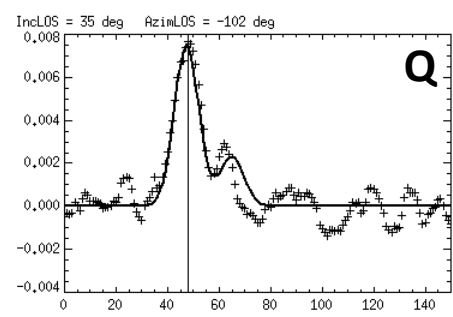
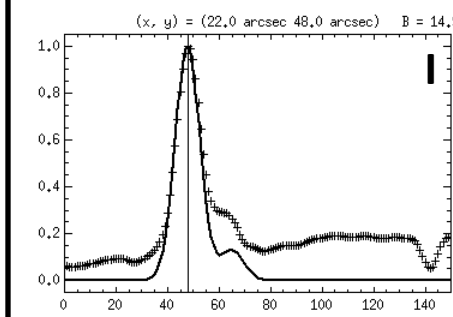
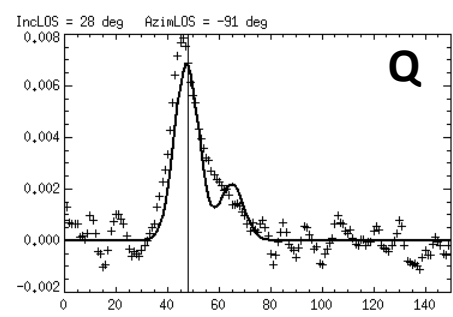
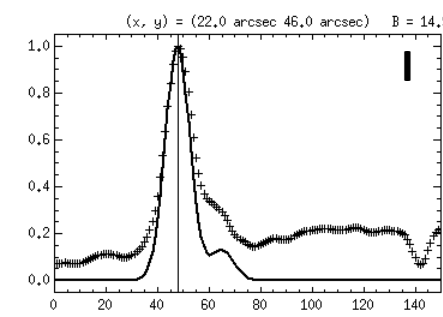
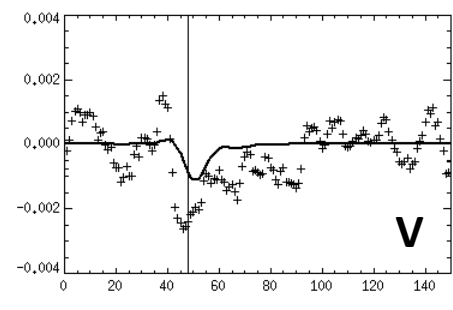
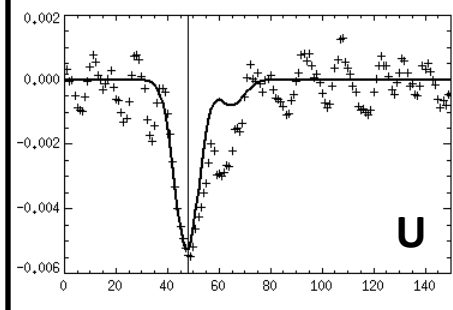
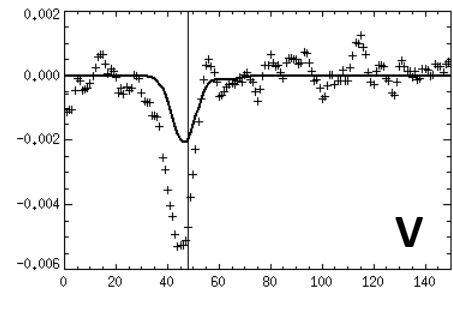
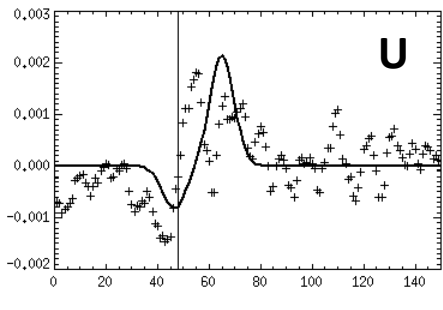
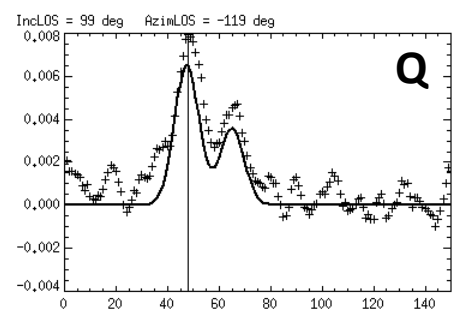
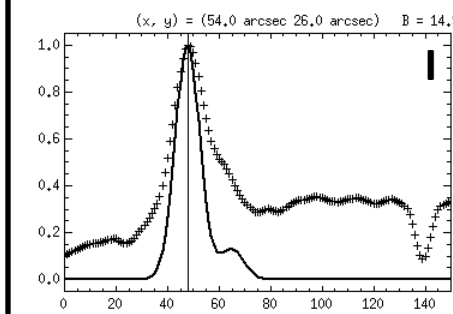
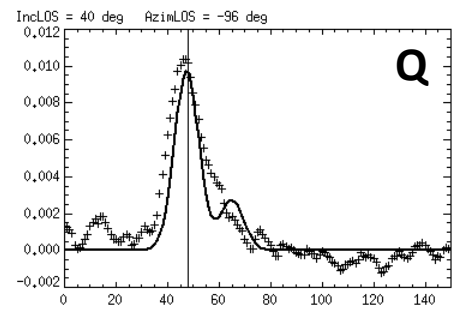
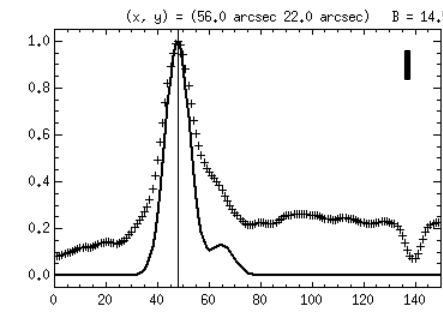
Errors of inclination LOC RS at PCA < 1



Errors of azimuth LOC RS at PCA < 1



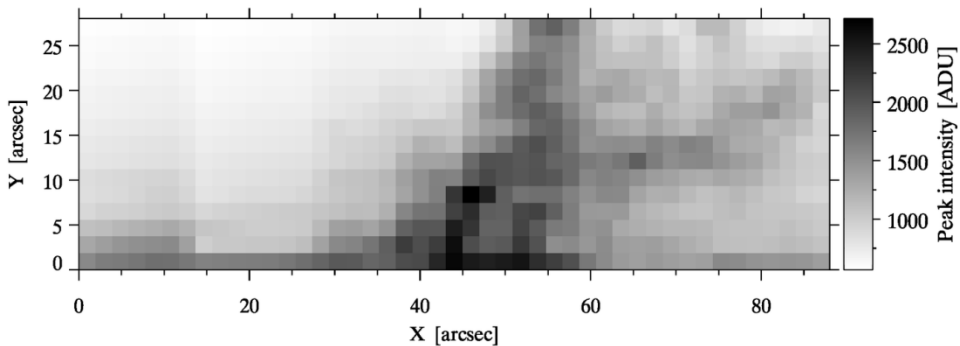
4 best fits with the PCA distance ≤ 0.8



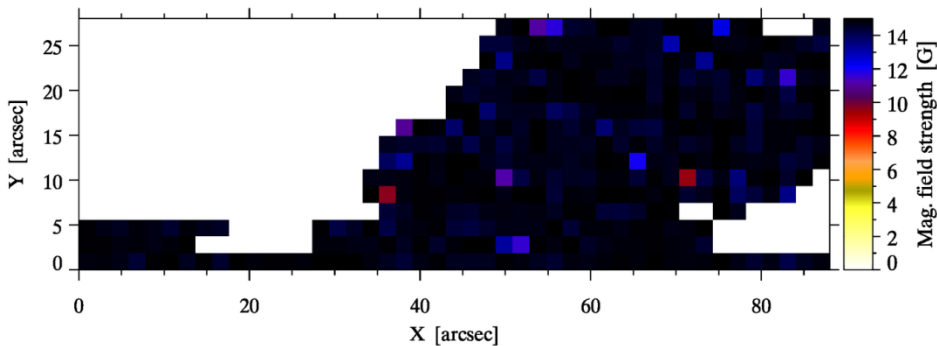
1 August 2014

2014-08-01 binning $2'' \times 1''$ (9 px \times 1 px)

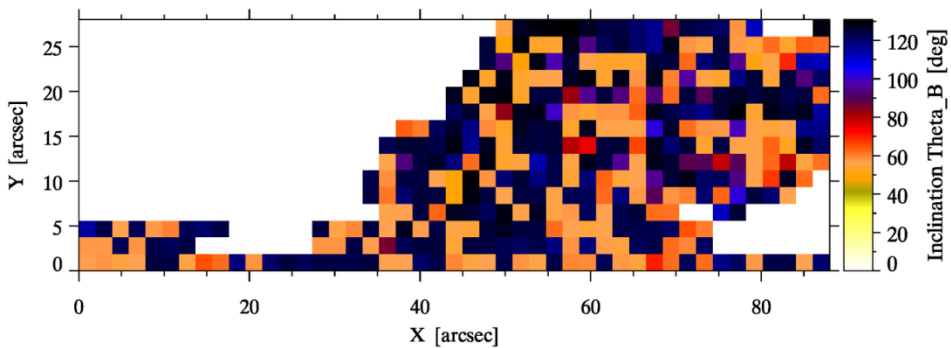
Peak intensity



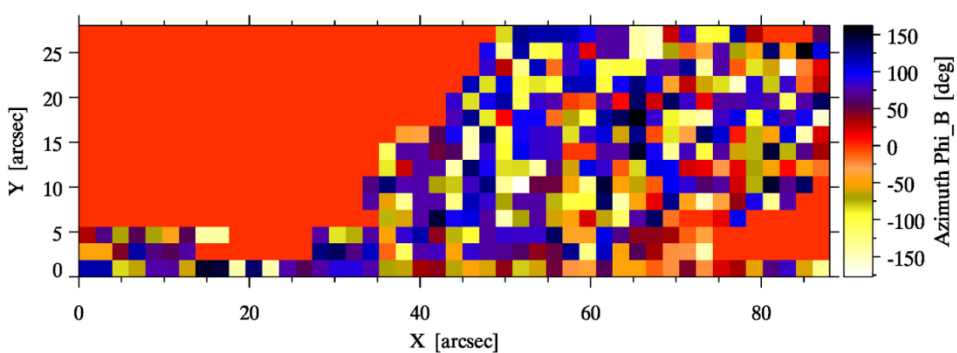
Mag. field strength



Inclination LOC RS

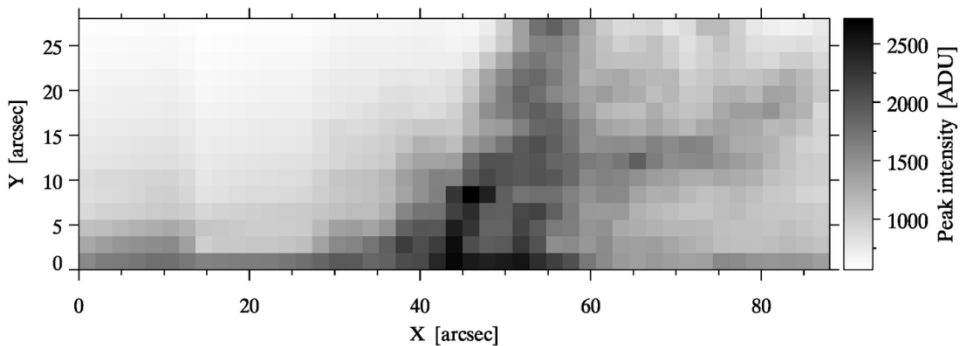


Azimuth LOC RS

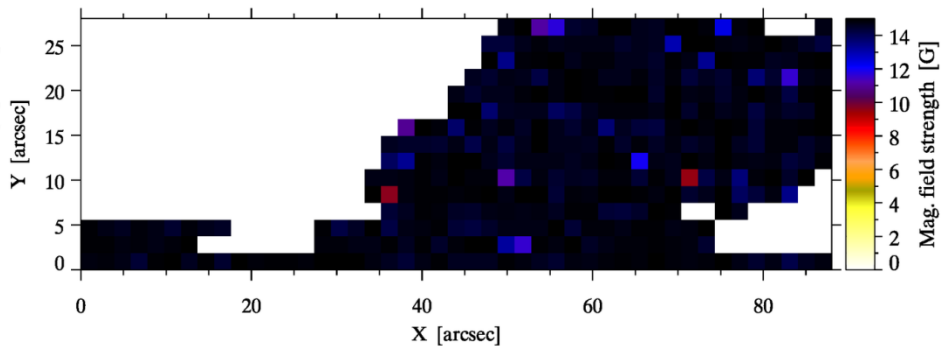


2014-08-01 binning $2'' \times 1''$ (9 px \times 1 px)

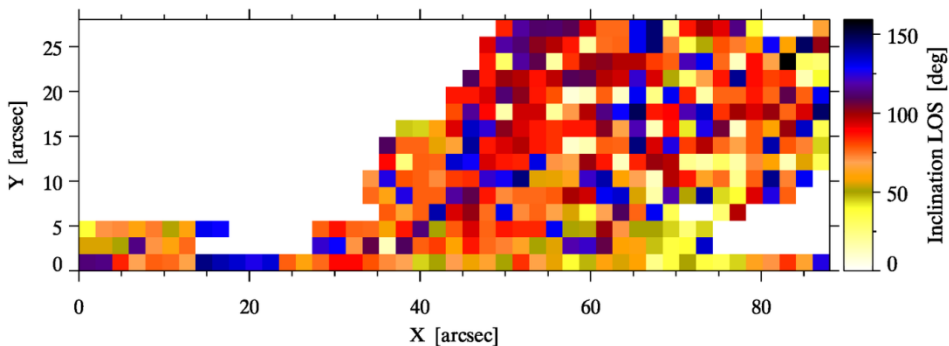
Peak intensity



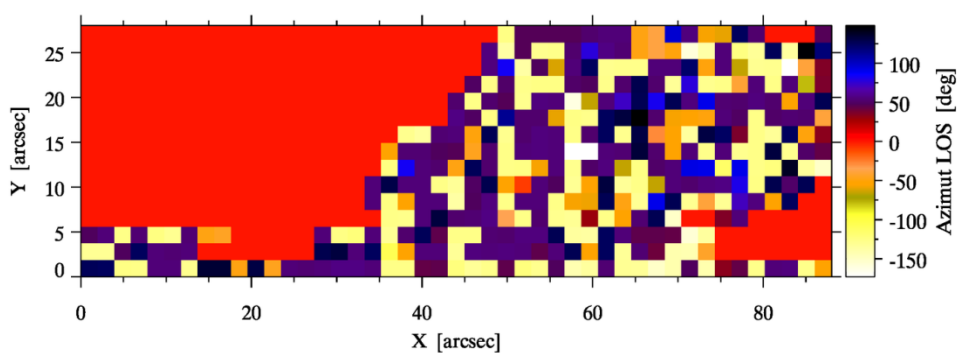
Mag. field strength



Inclination LOS RS

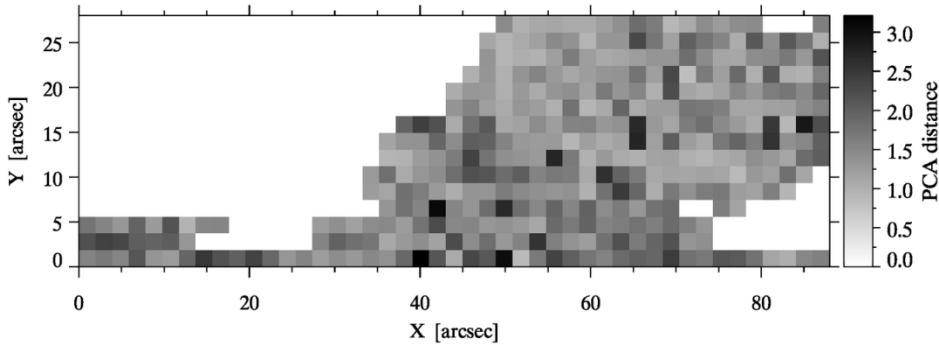


Azimuth LOS RS

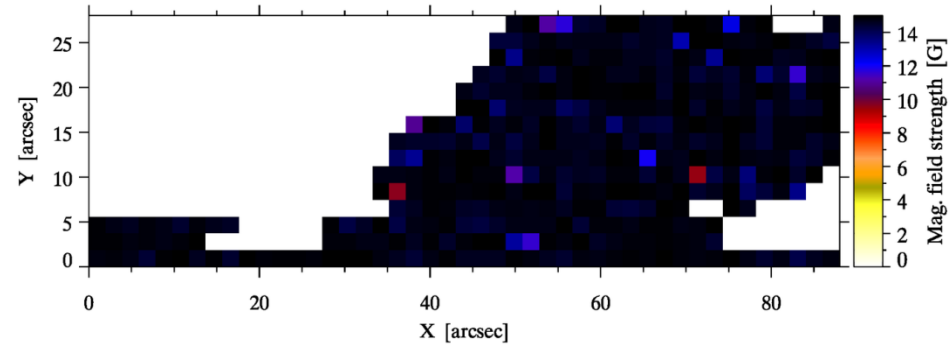


2014-08-01 binning $2'' \times 1''$ (9 px \times 1 px)

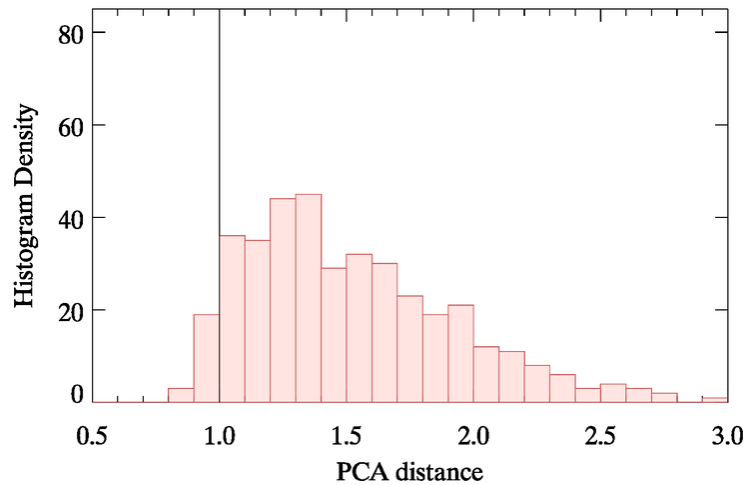
PCA distance



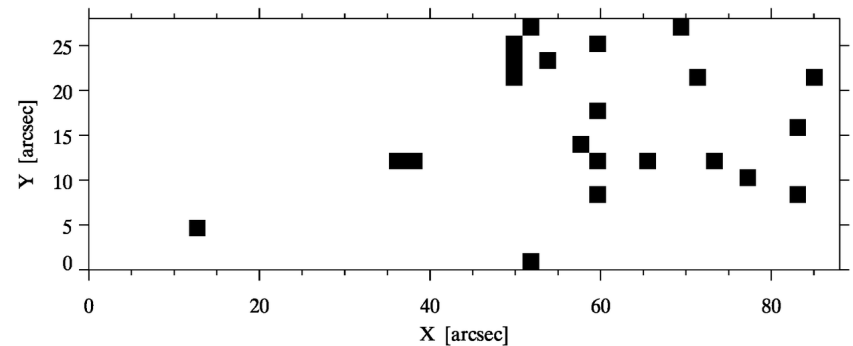
Mag. field strength



PCA distance

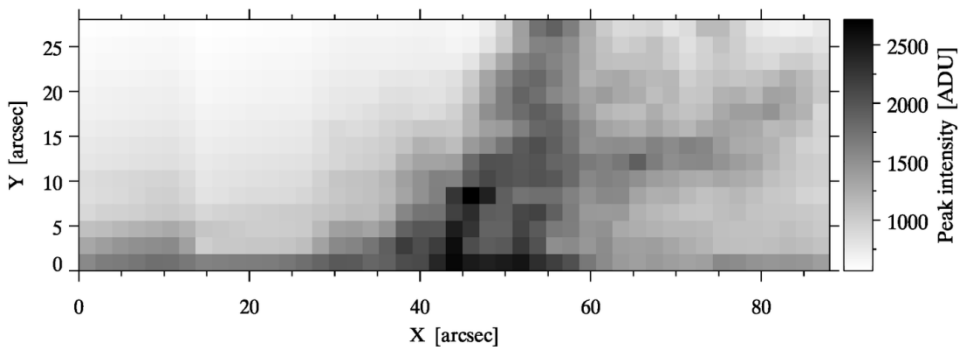


PCA distance < 1

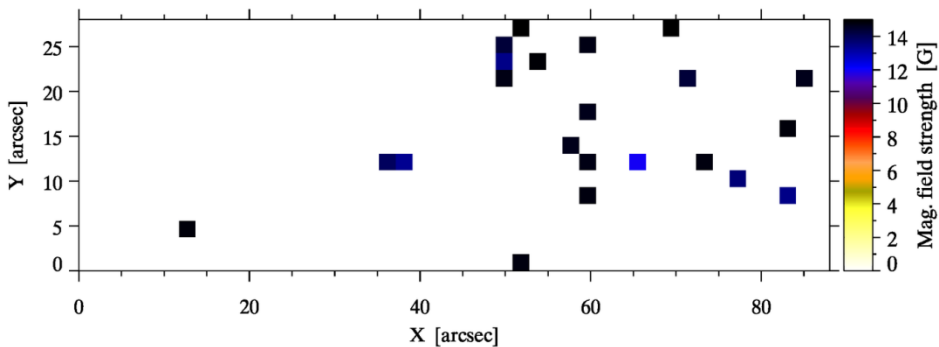


2014-08-01 binning $2'' \times 1''$ (9 px \times 1 px)

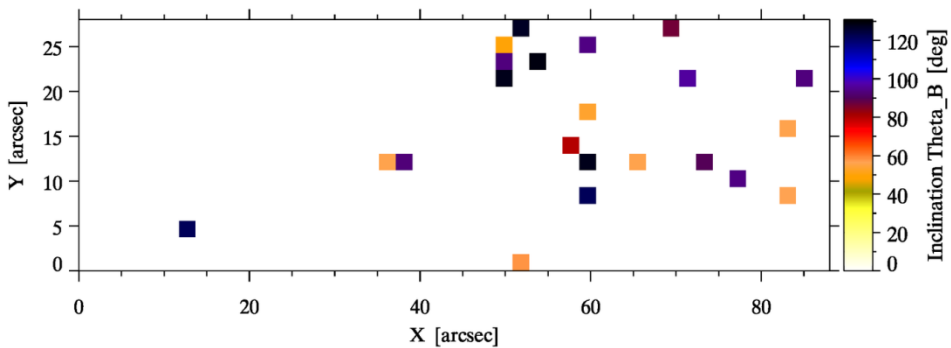
Peak intensity



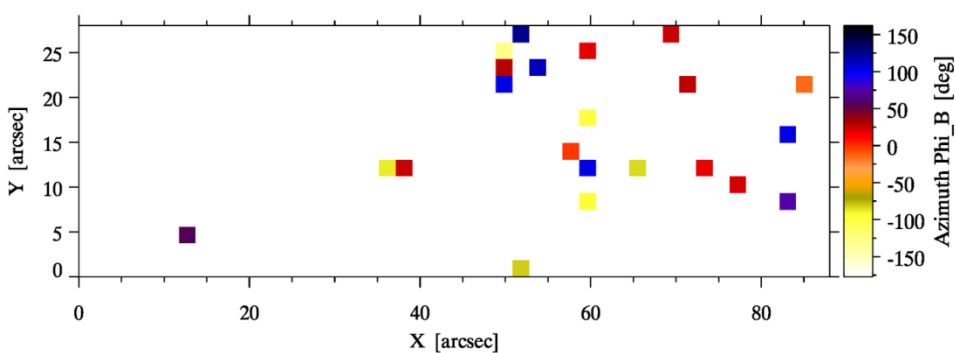
Mag. field strength at PCA < 1



Inclination LOC RS at PCA < 1

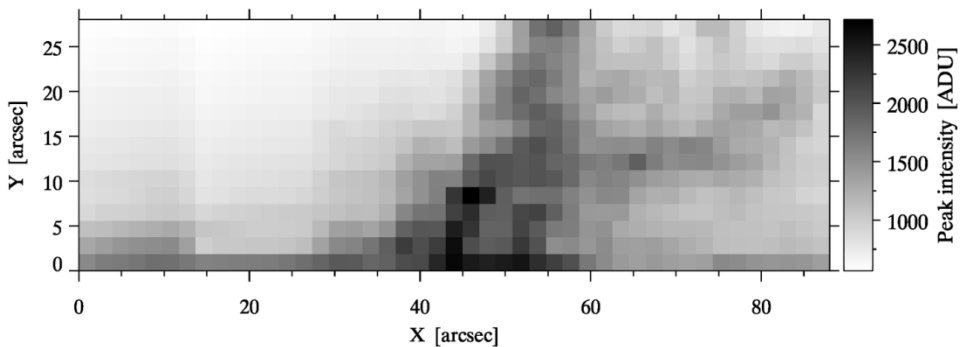


Azimuth LOC RS at PCA < 1

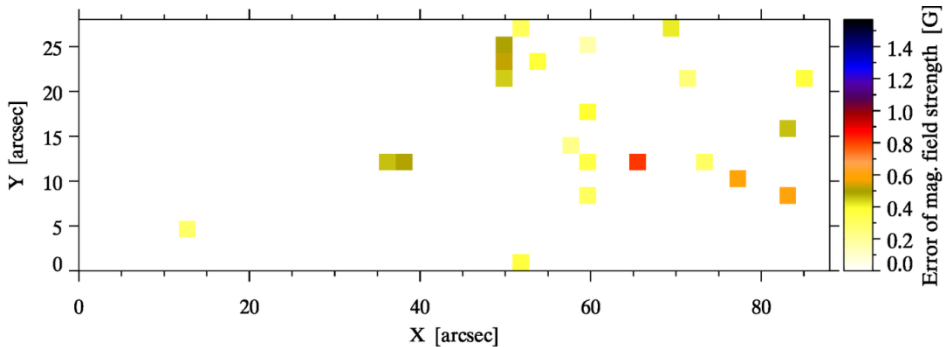


2014-08-01 binning $2'' \times 1''$ (9 px \times 1 px)

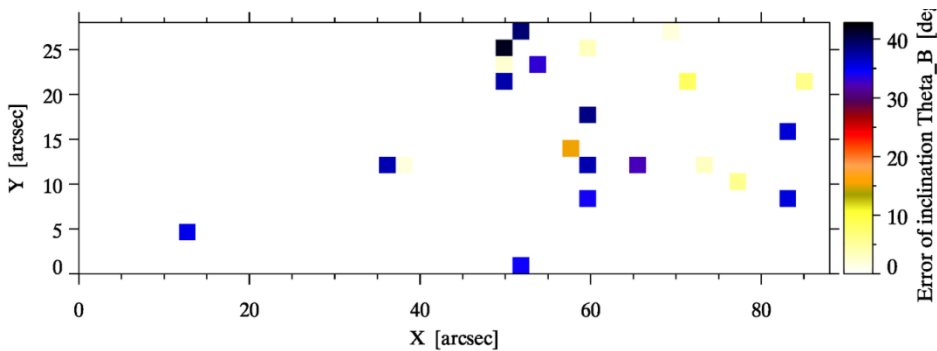
Peak intensity



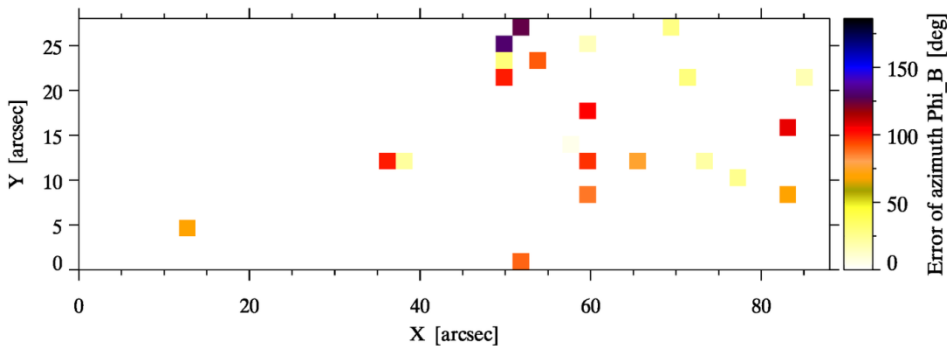
Errors of mag. field strength at PCA < 1



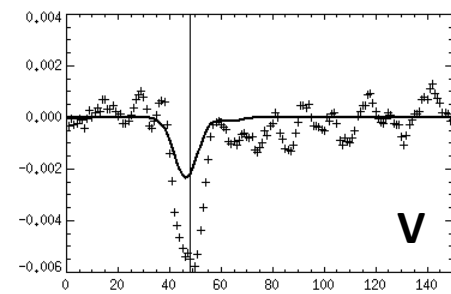
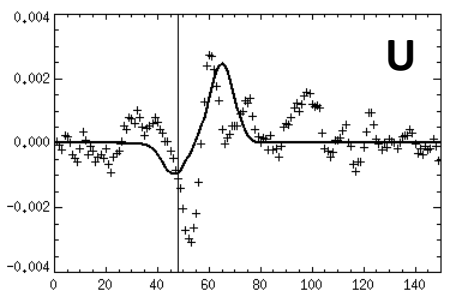
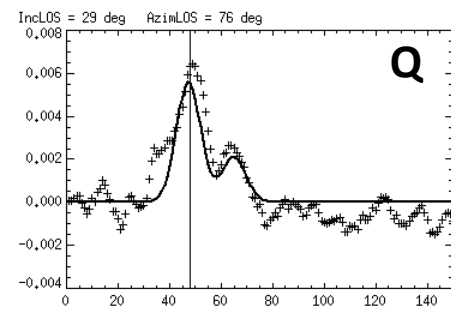
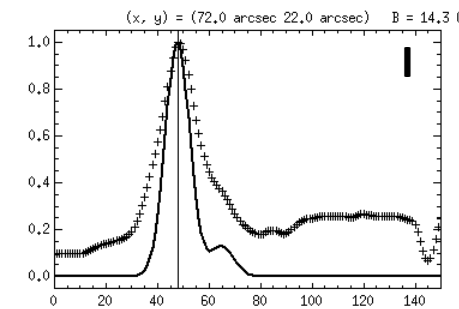
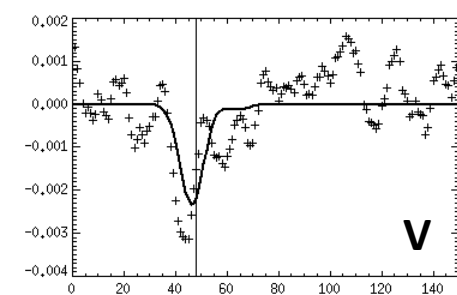
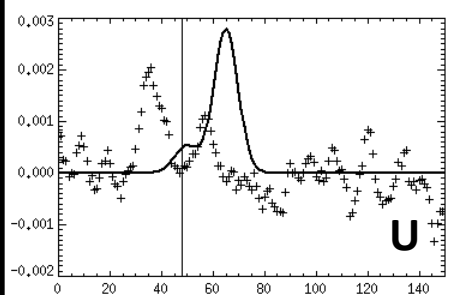
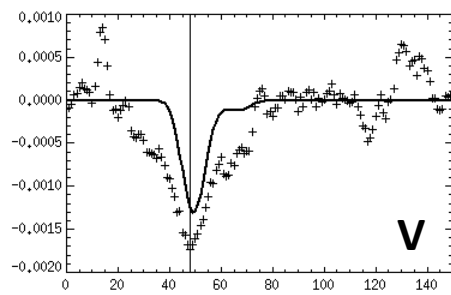
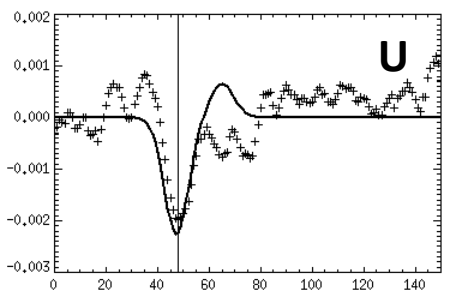
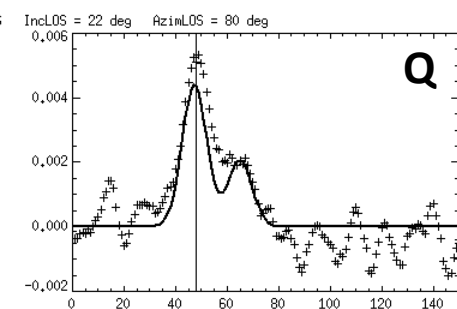
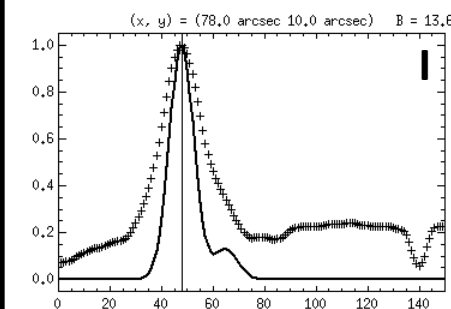
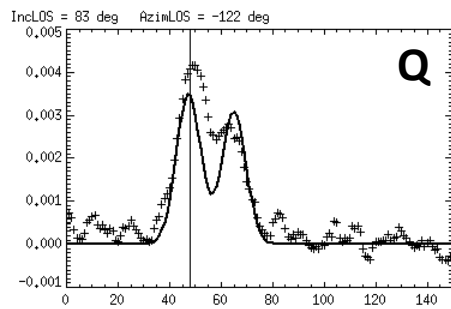
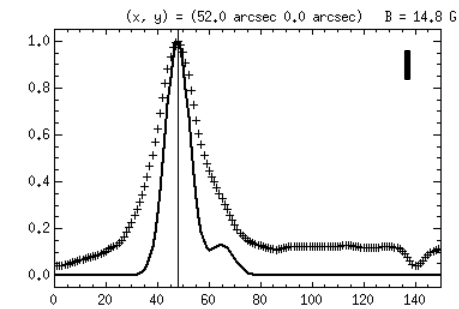
Errors of inclination LOC RS at PCA < 1



Errors of azimuth LOC RS at PCA < 1



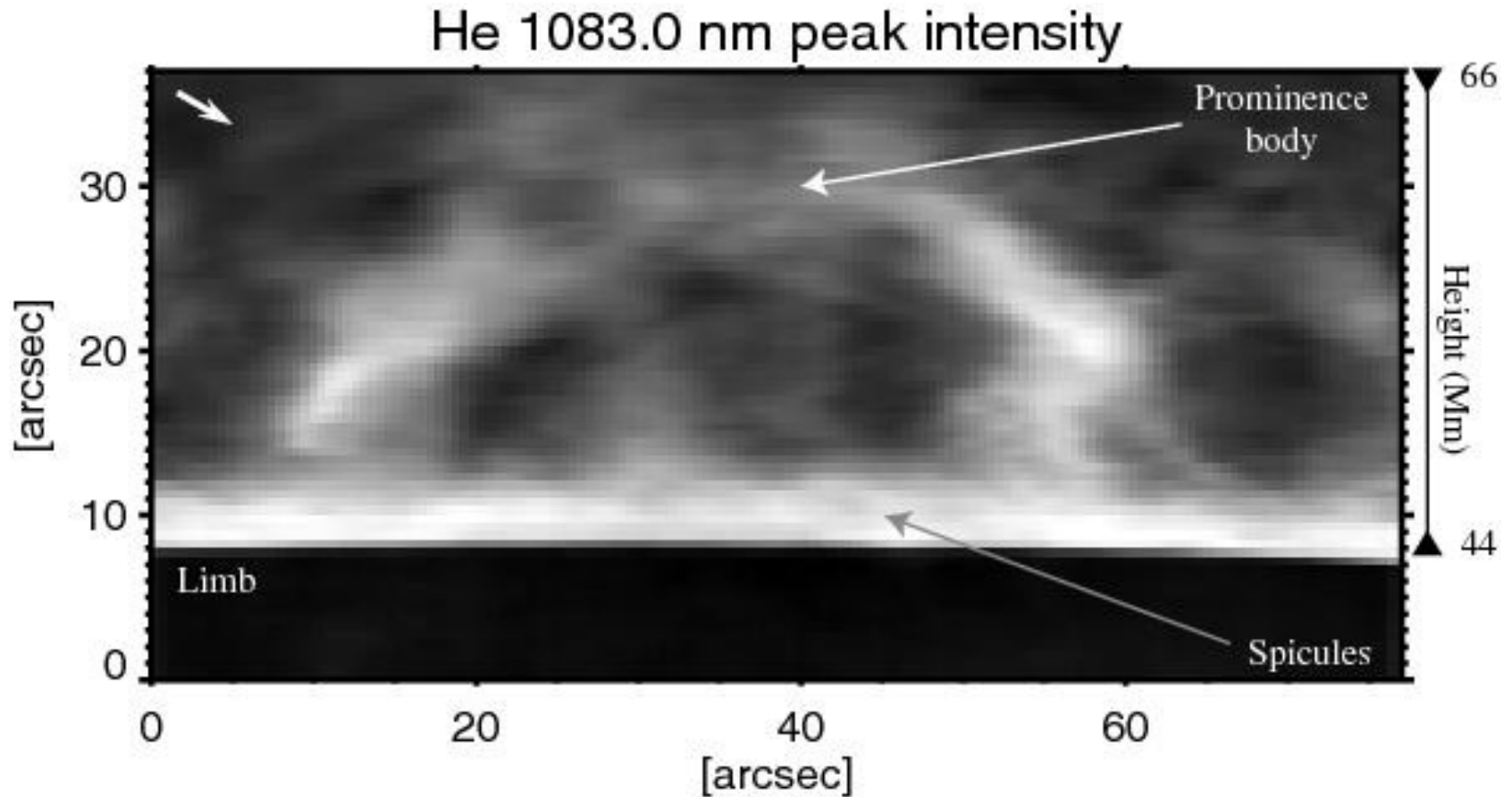
3 best fits with the PCA distance ≤ 0.9

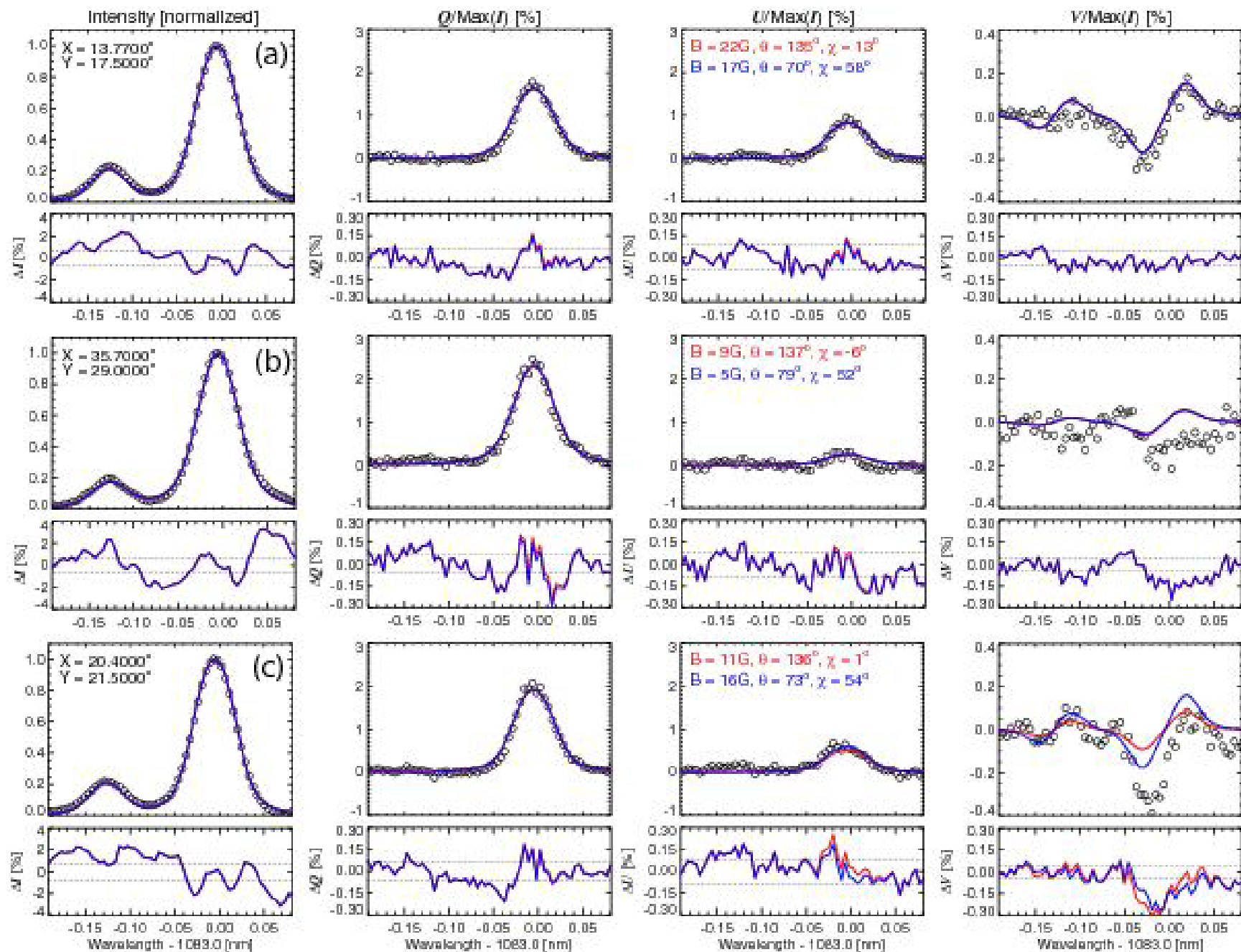


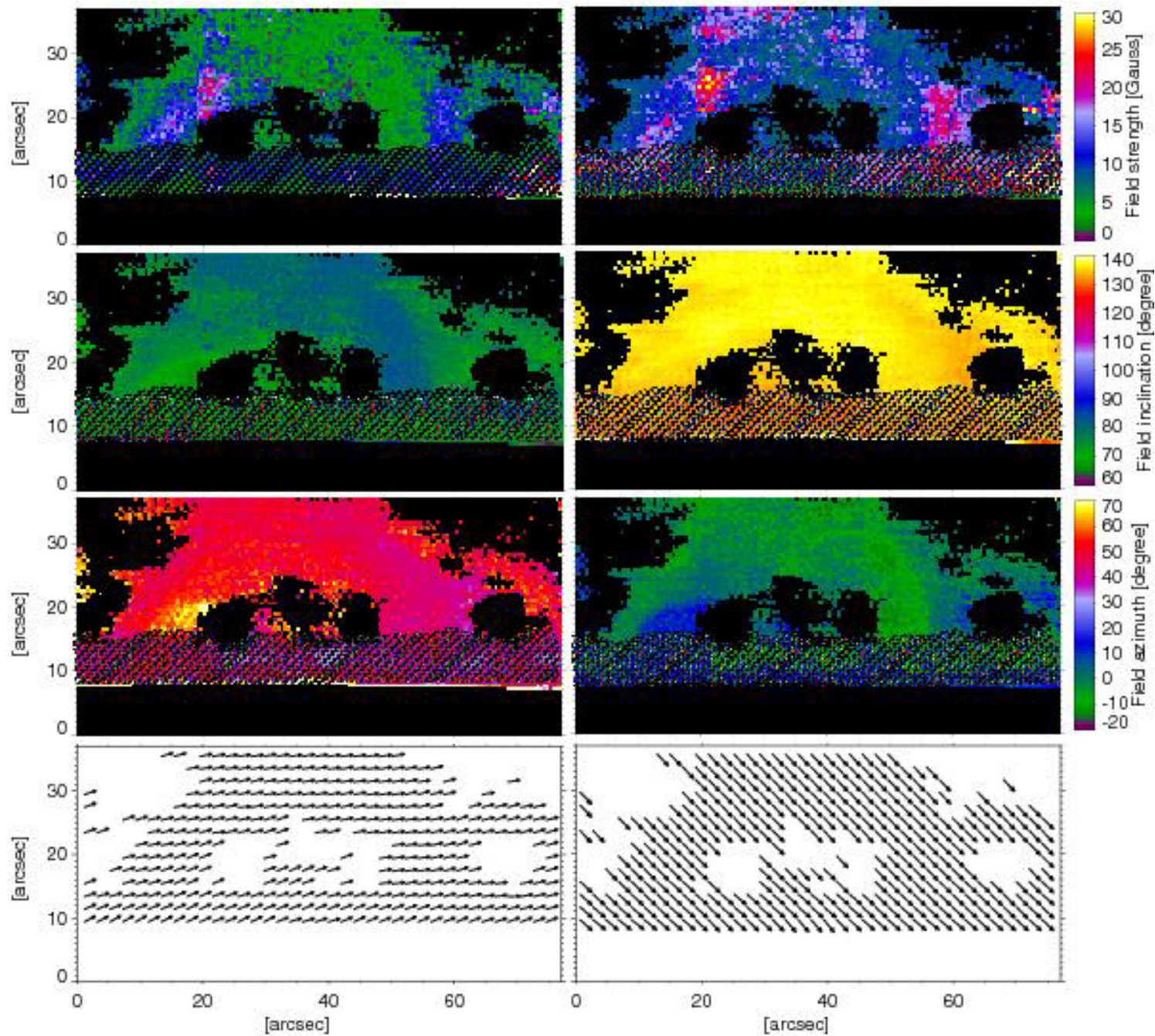
The magnetic field configuration of a solar prominence inferred from spectropolarimetric observations in the He I 10 830 Å triplet

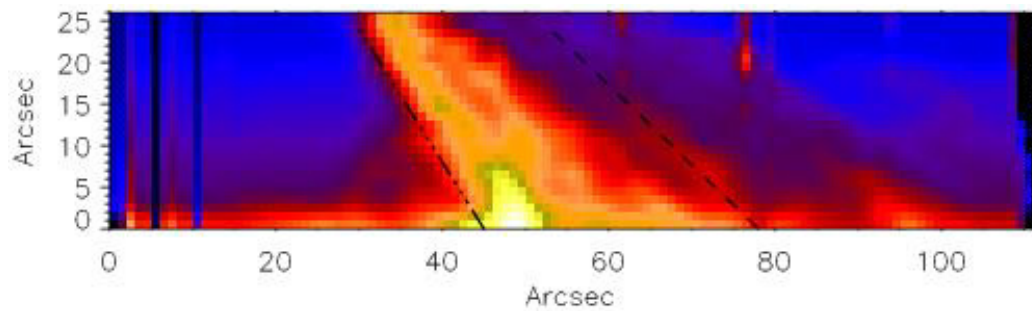
D. Orozco Suárez, A. Asensio Ramos and J. Trujillo Bueno

A&A, Vol. 566, June 2014, Article Number A46





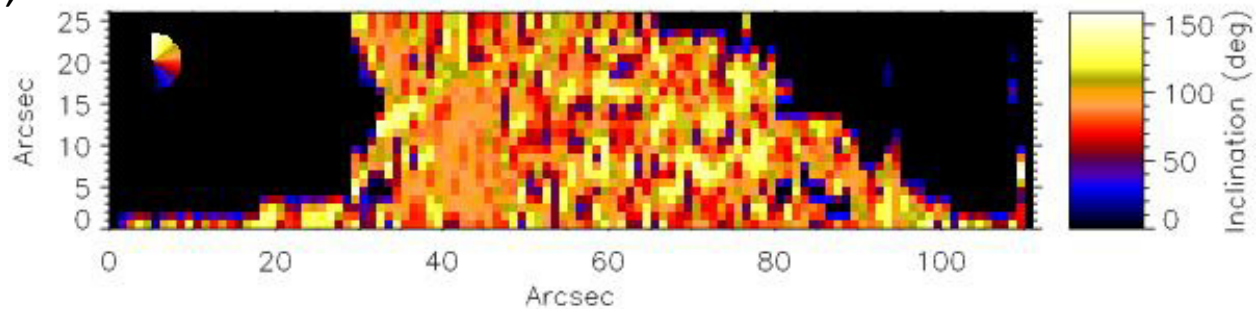
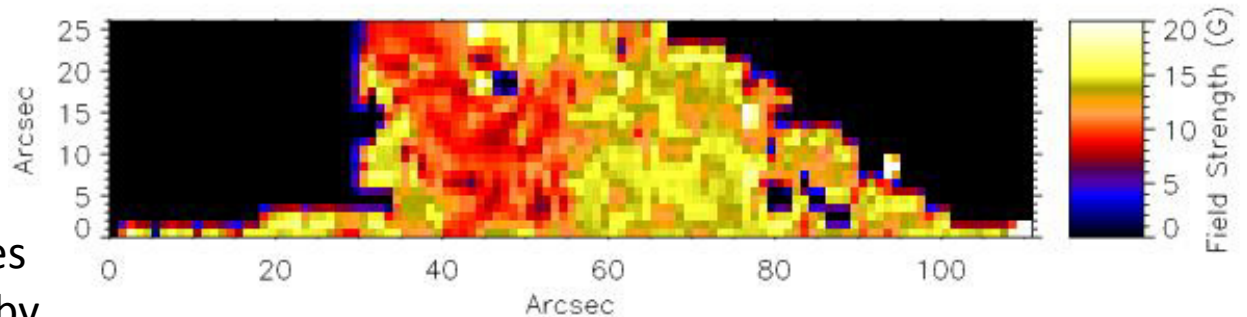




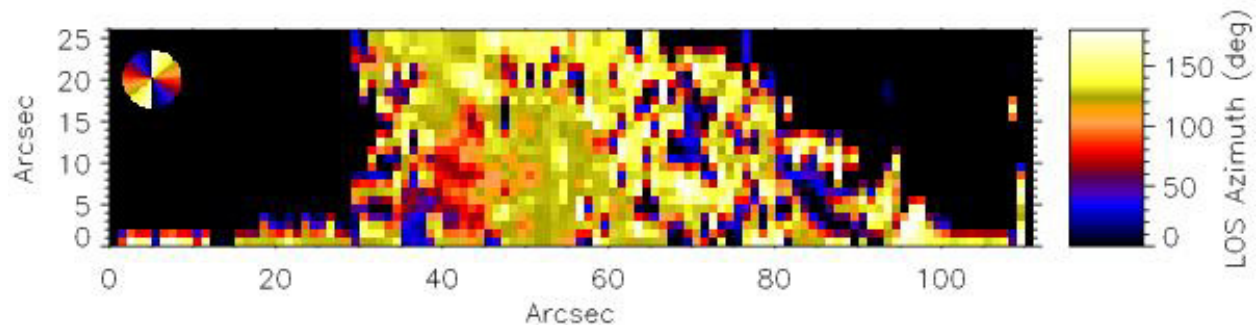
Schmieder et al. (2014)
Astronomy & Astrophysics

Open questions on prominences
from coordinated observations by
IRIS, Hinode, SDO/AIA, THEMIS,
and the Meudon/MSDP

Figure by A. López Ariste



Indukcia magnetického poľa
protuberancie: 0 – 20 G



Conclusions