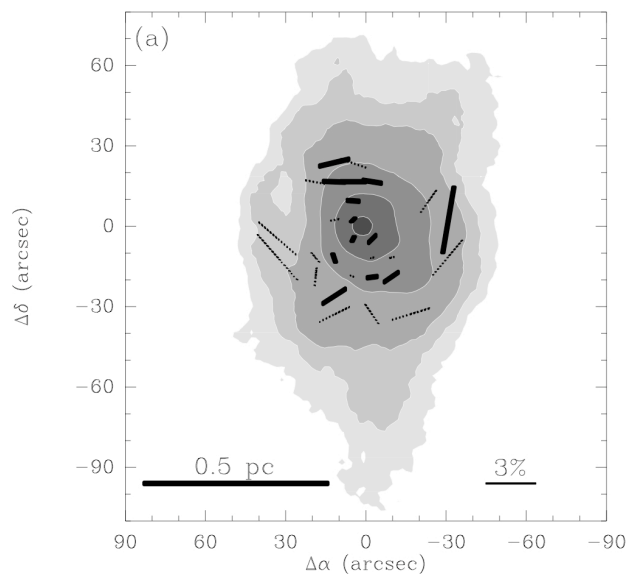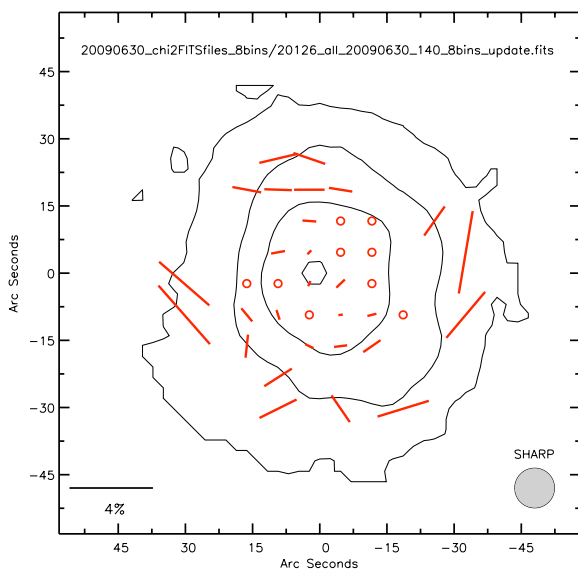SHARP data analysis on IRAS20126+4104 data set III
Hiroko

-Result maps with lower contour levels

Following maps are made using polsharp5 using the 8 bins inflation factor.
 polsharp5,'20126_all_20090630_140_8bins_update.fits',/
vec,skipv=3,maxsig=2,color=2,onep=1,/ps,/debias,levels=[0.055,0.1,0.2,0.9]
("debias" flag ==> John's 2006 PASP paper equation (11) & (12))

Left: The map using the polsharp5 command written above. The lowest contour is 5.5% of the peak flux.
Right: A map with 350 micron continuum measured with SHARCII with the same vectors plotted

- Check the number of pixels for 4- and 8-bins chi2 fits files

  Both chi2 fits files for 4 bins and 8 bins that the chi2 software generates have exactly the same number of pixels (2601 pixels). So, the reduced chi2 values derived (and reported in previous memos written on 2009/06/30 & 2009/07/01) are useful.
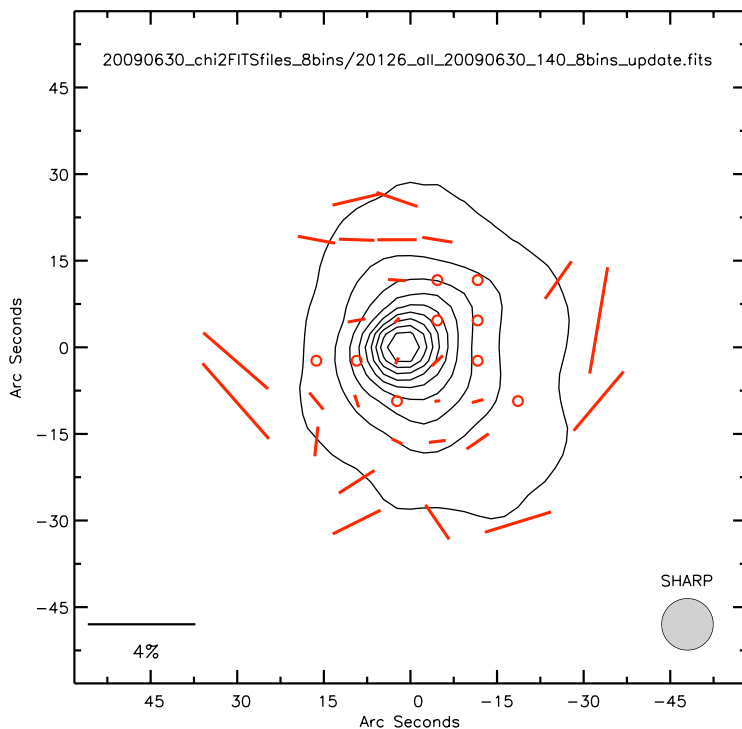
- Result maps using first half data and last half data

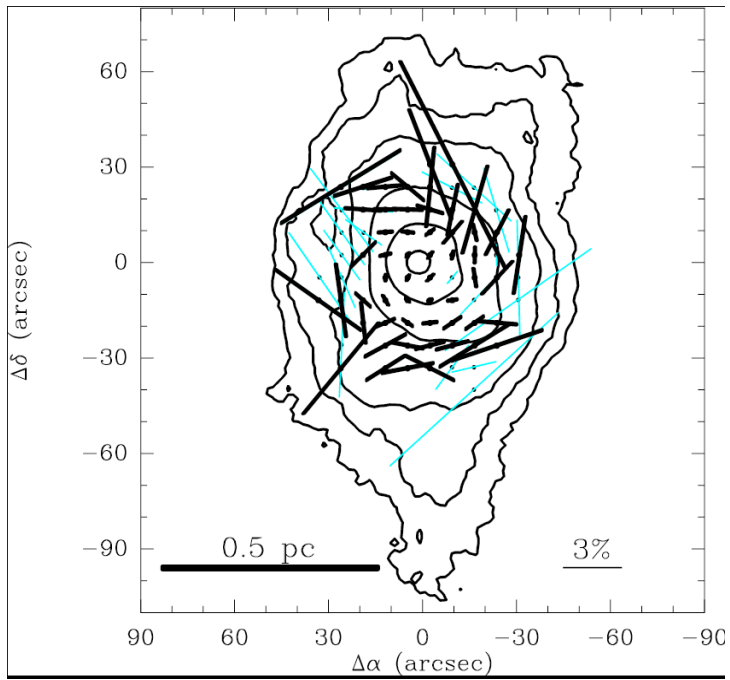E vectors plotted above 2.3 sigma (error not inflated)
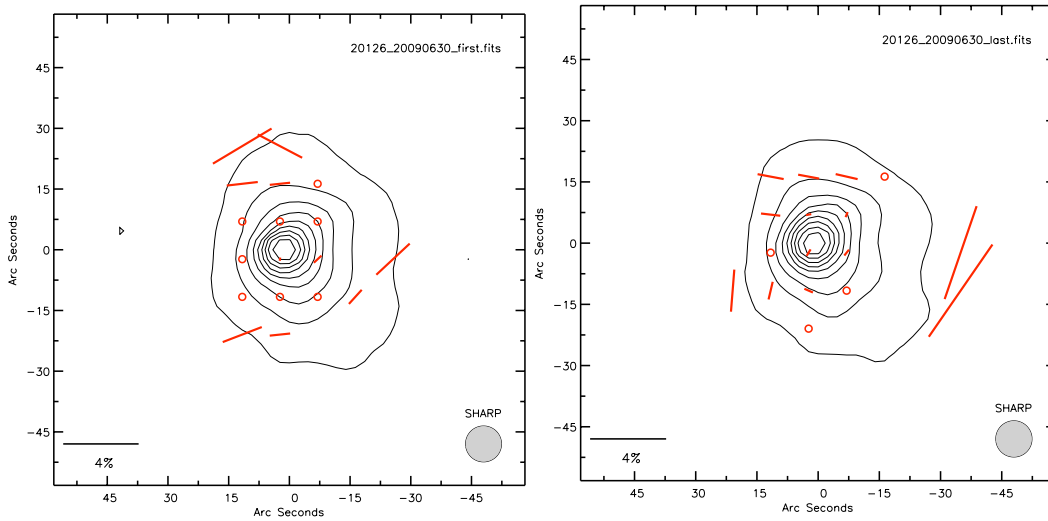
Results look similar, although some vectors show up only one of the plots.

2 sigma (error inflated)

Please note that the lowest degree of polarization measured was 0.3 %. The highest s/n was 6 sigma with 0.6% of degree of polarization near the center.

Polarization map as of 2008/04/15

Result maps obtained look very similar to what we got from analysis done before April 2008.