## Magnetic field measurements

first vector magnetic field inferences along an individual, resolved coronal loop structure extending up to heights of 70 Mm (0.1 RSun ), and the first polarimetric measurements of coronal loops located on disk

off limb measurements

Tomczyk et al. 2008

- azimuth of the magnetic field from linear polarization(ambiguity in orientation):
  - $\phi = 0.5 \arctan(U/Q)$
- strength of L.O.S magnetic field from zeeman shift

## Magnetic field measurements

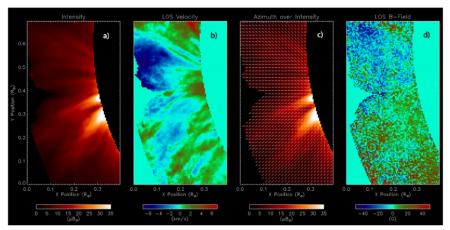


Figure 8 Map of inferred values of coronal parameters over the subarray shown in Figure 7. (a) The intensity of the Fe XIII 1074.7 nm emission line; (b) The LOS velocity; (c) The intensity with superimposed vectors showing the plane-of-sky direction of the magnetic field; (d) The LOS component of the coronal magnetic field.

Figure 1: Tomczyk et al. 2008 measurements

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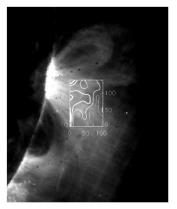


Fig. 3.—Contour map (based on 20° pixels) of the measured coronal magnetic field strength using Fe xIII overplotted on the EIT Fe xv image. The thick contour corresponds to 4 G, with additional contours corresponding to flux densities of 2, 0, and  $-2\,\mathrm{G}$ . Tick marks indicate the spatial scale in units of arrseconds.

Figure 2: Lin et al. 2004 measurements