

012-03-07 00:01:59.600 UT

-475 X (arcsecs)

 $\theta \sim 87^{\circ} \pm 19^{\circ}, \phi \sim 286^{\circ} - 311^{\circ}$

RS-type

.....

4. Summary

-12-13 02:14 UT

 $\theta \sim 70^{\circ} \pm 15^{\circ}, \phi \sim 180^{\circ} - 186^{\circ}$

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We confirm that the SDO data are able to be utilize for flare trigger study, and that we can apply the analysis method of our previous study with Hinode to the SDO data. It is also shown that if the size of trigger region is as large as ~10", they are detectable with HMI.

a summer

Next works:

- To increase the number of event analysis.
- To investigate the time variation of the angles θ and ϕ
- using high cadence and steady data sets obtained by SDO.

the non-smoothed PIL. (cf. panels (c))

. To measure the angles between each transvers magnetic field vector and **N**. \rightarrow The sheared angle θ (cf. panels (d)) In case of X5.4 flare in 2012, the conditions of θ and φ are consistent with RS-type.

ightarrow We can measure the angles 0 and arphi

with SDO using previous method !!

 \rightarrow The azimuthal angle φ