Low-lying loops observed with IRIS and the SST: connecting the dots Tiago M. D. Pereira with Luc Rouppe van der Voort and Viggo Hansteen





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A AL

 $H\alpha 41 \text{ km s}^{-1}$

$H\alpha$ Dopplergram

Mg II 279.6 nm

10:29:47.3 UT



$H\alpha 41 \text{ km s}^{-1}$

$H\alpha$ Dopplergram

Mg II 279.6 nm

10:34:34.9 UT





Mg II 279.6 nm

 $H\alpha 41 \ {\rm km \, s^{-1}}$

 $1^{\prime\prime}$

10:33:56.2 UT

$H\alpha 41 \ {\rm km \, s^{-1}}$



Mg II 279.6 nm



10:50:53.6 UT





Mg II 279.6 nm



10:54:07.2 UT

$H\alpha 41 \ {\rm km \, s^{-1}}$

$H\alpha$ Dopplergram

Mg II 279.6 nm



10:54:51.4 UT

$H\alpha 41 \text{ km s}^{-1}$

$H\alpha$ Dopplergram

1″

Mg II 279.6 nm

10:55:30.2 UT

$H\alpha 41 \text{ km s}^{-1}$

$H\alpha$ Dopplergram

Mg II 279.6 nm

1″

10:20:56.2 UT

 $H\alpha 41 \text{ km s}^{-1}$

$H\alpha$ Dopplergram

Mg II 279.6 nm

10:24:31.9 UT



$H\alpha$ Dopplergram

Mg II 279.6 nm

 $H\alpha - 41 \text{ km s}^{-1}$



10:49:41.7 UT

Findings (so far...)

- Little chromospheric response seen in low-lying loops (LLL)
- $H\alpha$ velocities show clearest response (but not always)
- LLL rooted in same footpoints as spicule bushes
- Hints of reconnection around LLL and shell of cooler material above TR loops sometimes ejected