

Sabrina Savage

Special Acknowledgements:

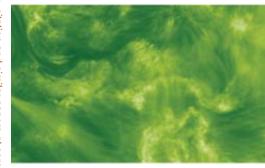
Jonathan Cirtain (MSFC), Amy Winebarger (MSFC Ken Kobayashi (UAH/MSFC), Leon Golub (SAO), Kelly Korreck (SAO)







Figh-Desclution Coronal Imager

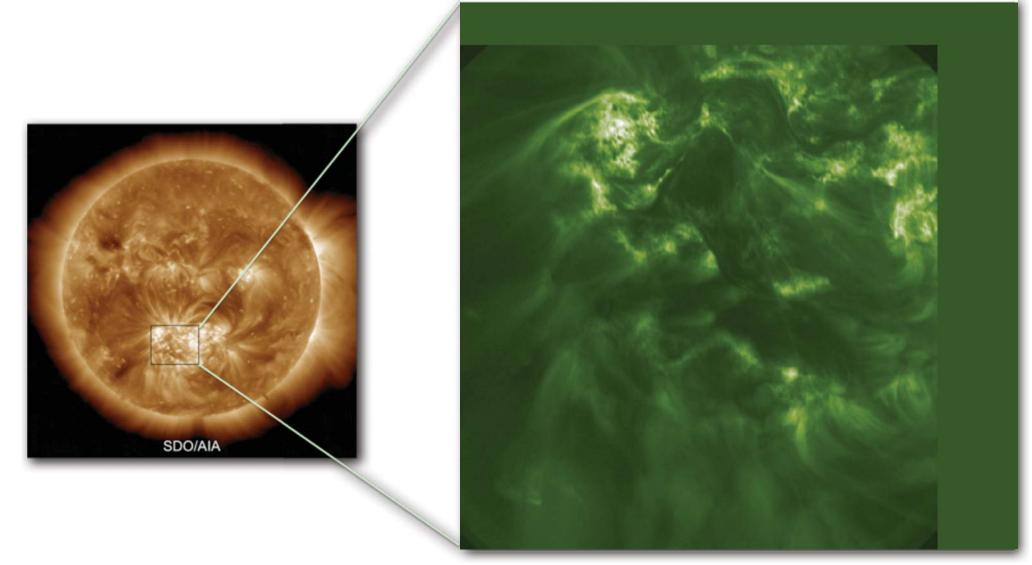


jh-

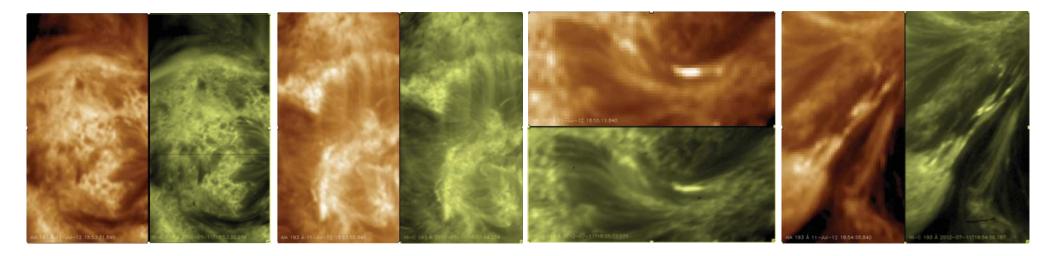
brought to you by TCORE

AIA & Hi-C 193 (11 July 2012)

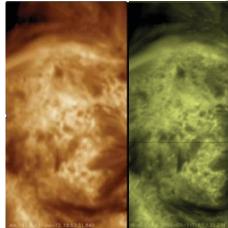
0 Hi-C 193 11-Jul-2012 18:52:09.750

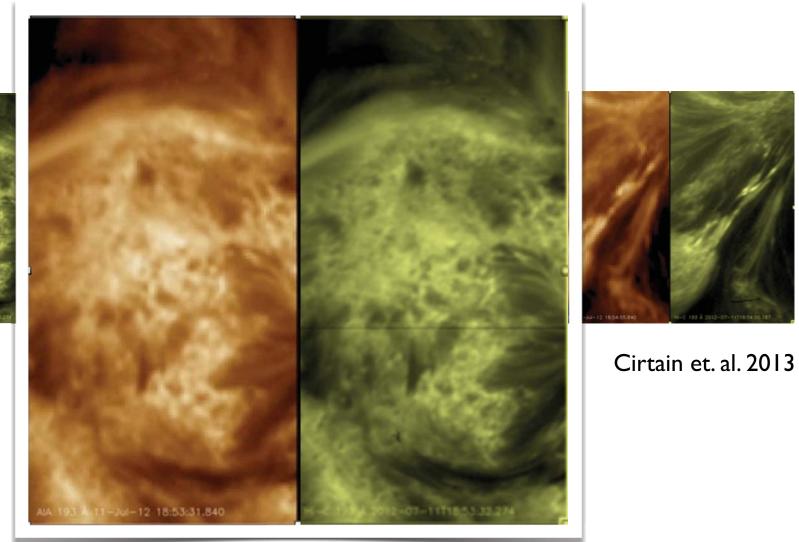


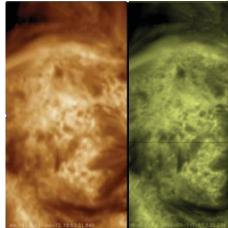
Hi-C: 4K duration ~ 3 min; IK duration ~ 2 min; Cadence ~ 5.5 sec

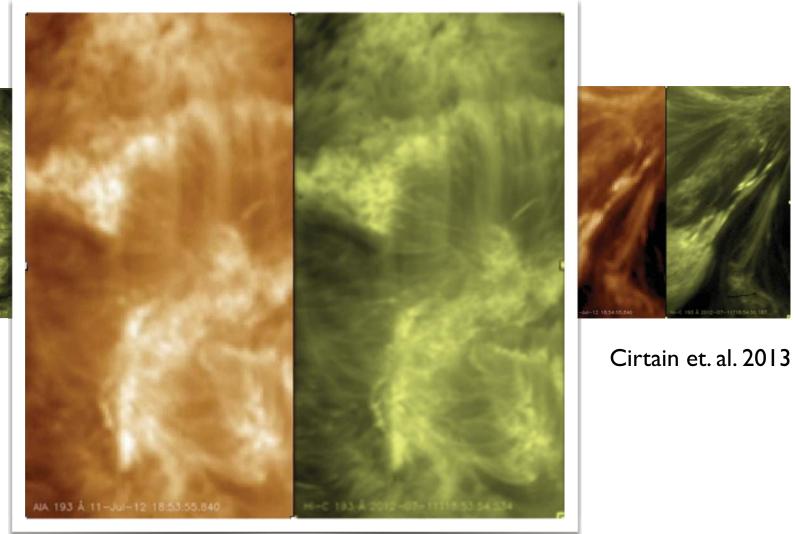


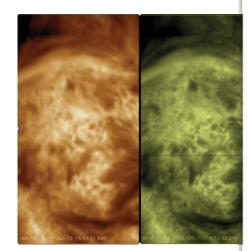
Cirtain et. al. 2013

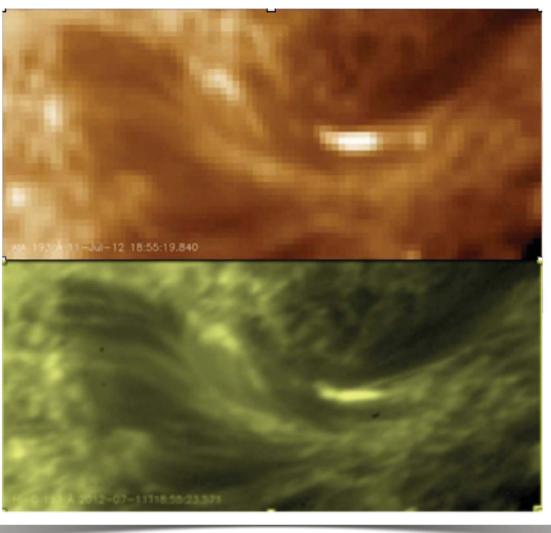


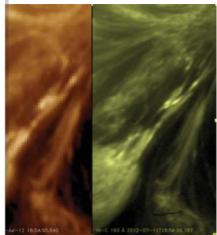


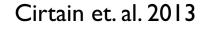


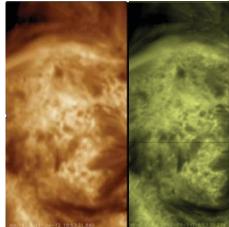


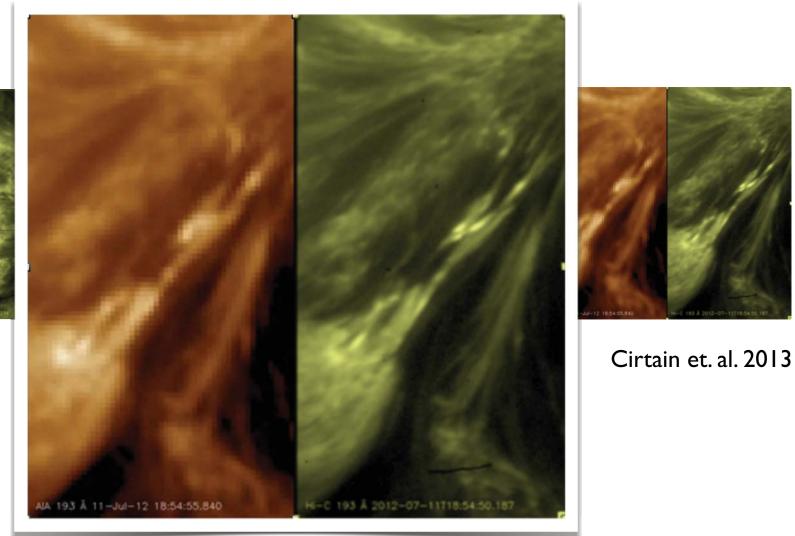




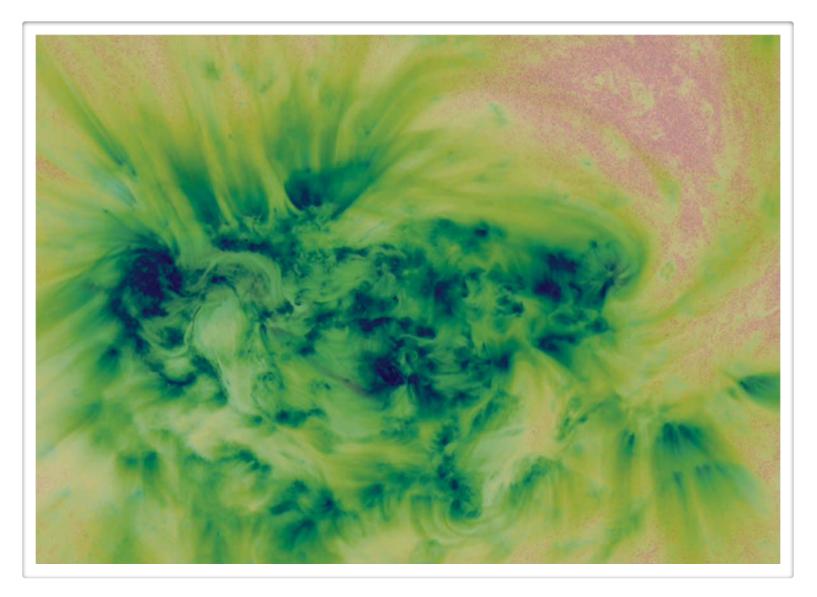








AIA 193 (Red/Blue) + 131 (Green) 11 Jul, 00 UT - 15 Jul, 00 UT

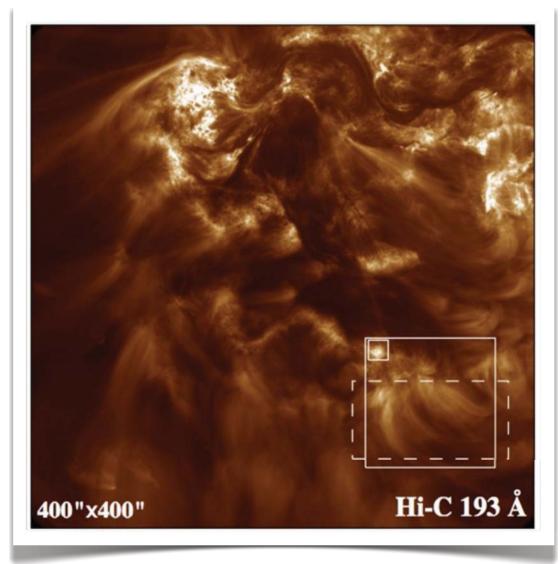


Selected Science Publications

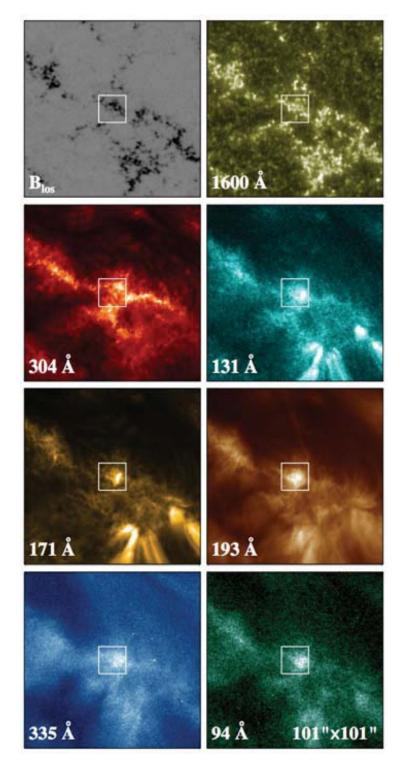
- 1. Energy release in the solar corona from spatially resolved magnetic braids Cirtain et al. 2013, Nature, 493, 7433, pp 501
- 2. Hi-C and AIA observations of transverse magnetohydrodynamic waves in active regions Morton & McLaughlin 2013, A&A, 553, 10
- 3. Anti-Parallel EUV Flows Observed Along Active Region Filament Threads with Hi-C Alexander et al. 2013, ApJ, 775, L32
- 4. Structure of solar coronal loops: from miniature to large-scale Peter et al. 2013, A&A, 556, A104
- 5. Observing Coronal Nanoflares in Active Region Moss Testa et al. 2013, ApJL, 770, 1

Add pics and emphasis

Plage I: Miniature Loops?

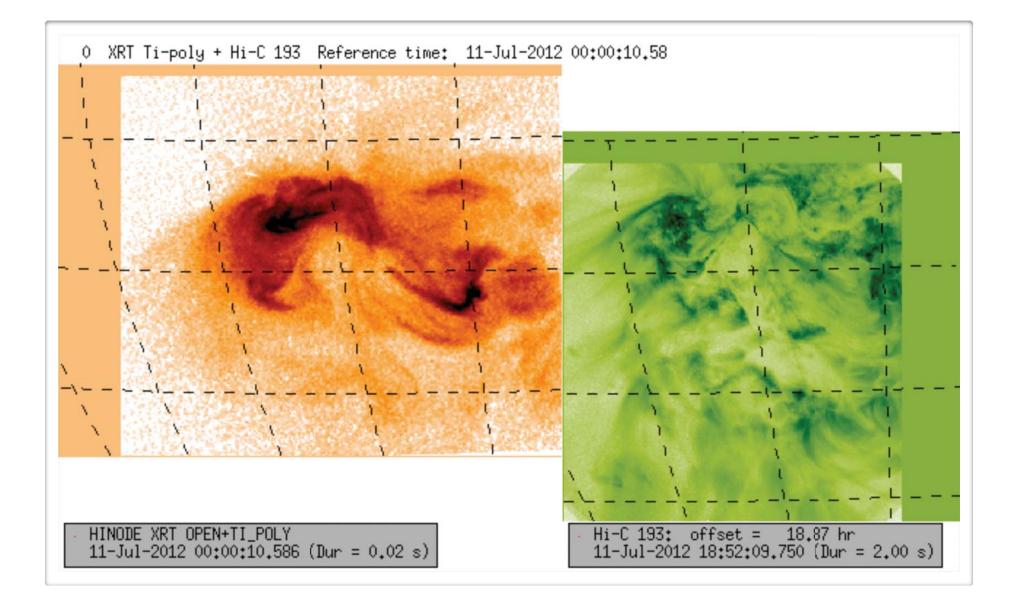


-Assumes no hot loop associated with the bright central spot due to determined lack of X-ray imaging ...

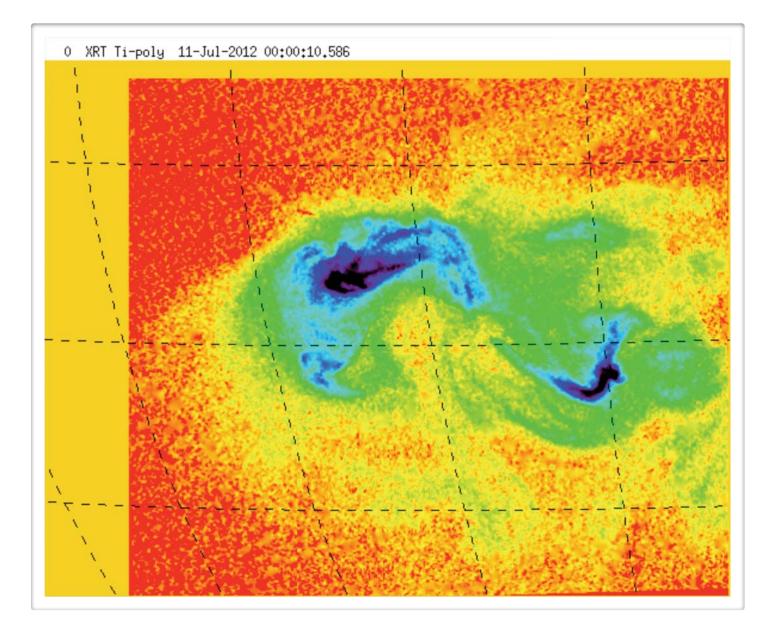


Peter et. al. 2013

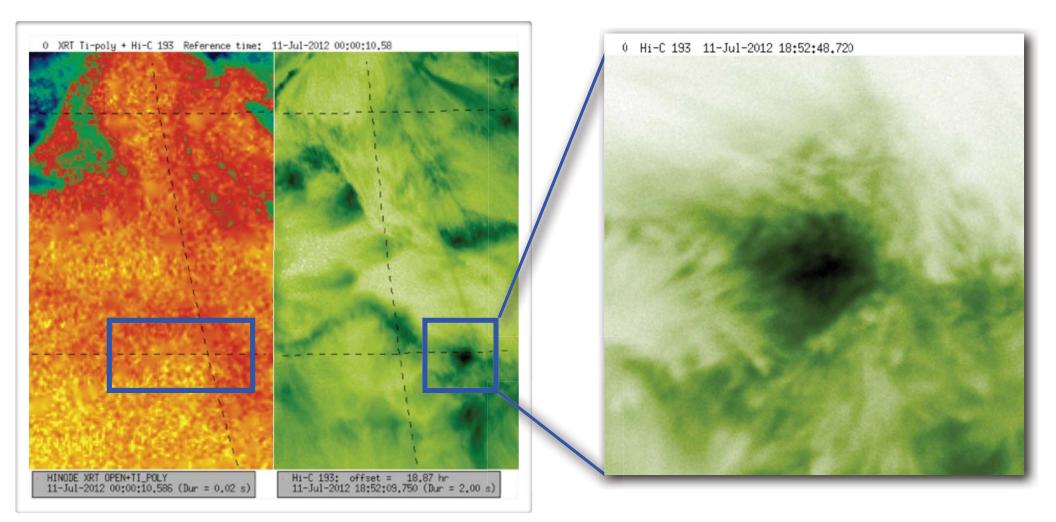
XRT Ti-Poly + Hi-C 193



XRT: Large-scale structure

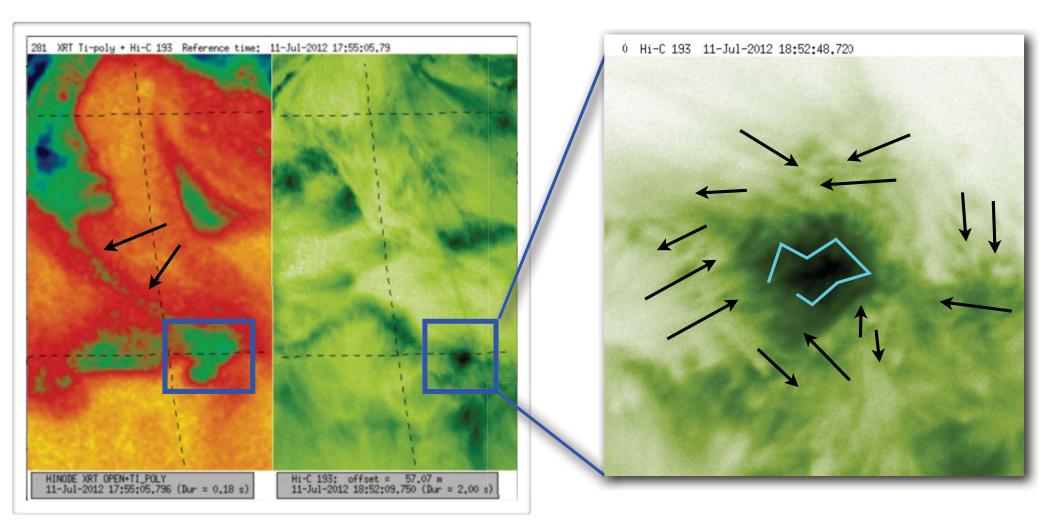


XRT + Hi-C Plage Region I



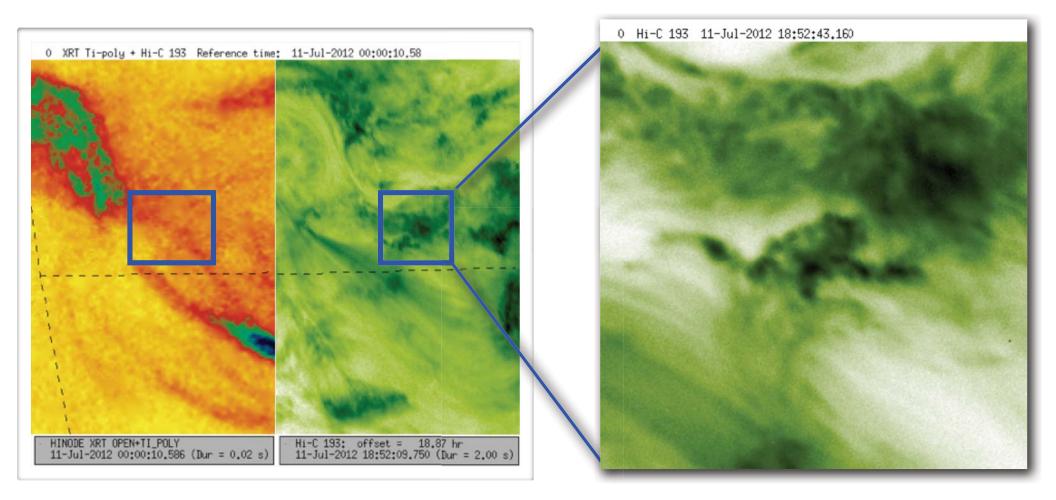
Focus from Peter et. al. 2013

XRT + Hi-C Plage Region I



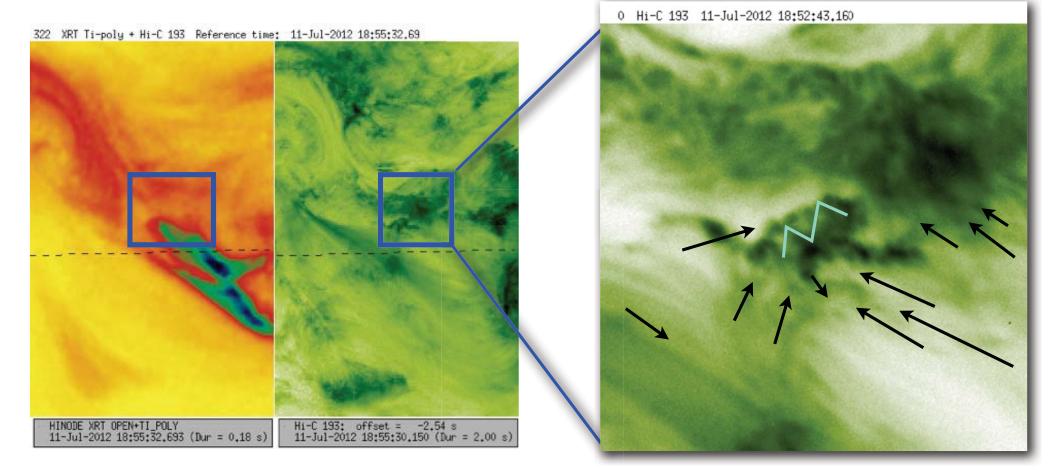
Focus from Peter et. al. 2013

XRT + Hi-C Plage Region 2



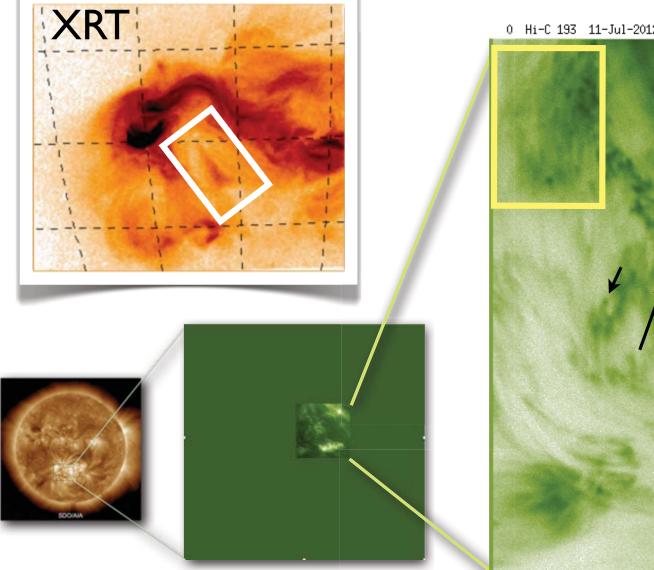
Focus from Testa et. al. 2013

XRT + Hi-C Plage Region 2

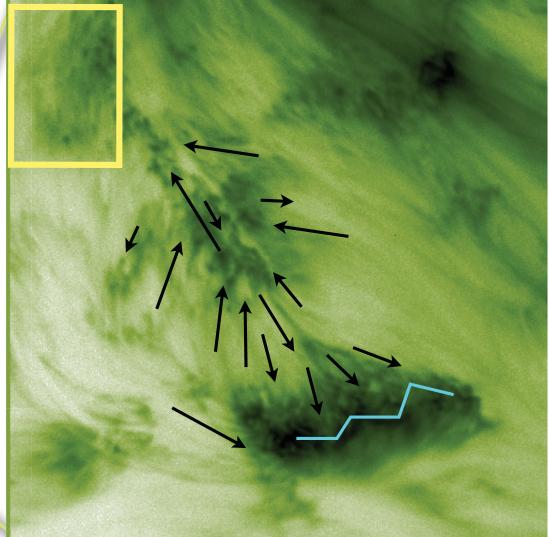


Focus from Testa et. al. 2013

Hi-C 193 IK region



0 Hi-C 193 11-Jul-2012 18:52:43,160



Conclusions

- Can we say anything about nanoflares or heating mechanisms?
- Are there micro-loops in the "dynamic moss"?