Analysis of X8.2 flare (2017-09-10) Ca II 8542 Å Нβ ΔEW with $\Delta \lambda = 0.5$ Å. 160 0.45 1.00200 0.30 **—** Ηβ -0.50.0010 **-**→ Ca II 8542 Å 1.00175 140 -140 0.40 0.0008 0.25 - 1.00150 -0.6Contrast profile 100 80 120 -0.35 0.0006 - 1.00125 ∆*EW* [Å] -0.70.20 | 1.00100 100 T 0.30 0.0004 1.00075 0.25 **-**0.8 80 80 -0.0002 - 0.15 1.00050 Minutes from start of flare [min] 0.20 0.0000 60 -60 --0.9- 1.00025 0.10 -0.00020.15 1.00000 40 -40 --1.04861.00 4860.75 4861.25 4861.50 120 58541.08541.58542.0 08542.58543.08543.5 140 50 4861.75 4862.00 60 80 40 100 160 Time from begin of flare [min] Нβ Ca II 8542 Å Contour plot μ -value 1e-8 1e-7 160 160 -110- 7.5 140 140 -120- 5.0 Voight + Residuals 00 00 001 -130120 - 2.5 0.0 --140100 0.0 -2.580 0 -160-5.060 60 -1- -7.5 -17040 -1804861.25 4861.50 4861.75 8543.0 4861.00 58541.08541.58542.08542.5 960 980 X [arcsec] Wavelength [Å]