Analysis of M1.9 flare (2015-09-27) Ca II 8542 Å ΔEW with $\Delta \lambda = 0.5$ Å. 1.00 - 0.00020 8.0 0.000075 0.75 35 8.0 0.00015 0.000050 0.7 0.50 0.000025 0.00010 0.7 0.6 30 0.000000 0.25 0.00005 0.6 -0.000025 0.5 0.00 0.00000 25 -0.0000500.5 0.4 -0.25-0.00005-0.000075 20 0.4 -0.500.3 -0.00010-0.000100-0.75-0.000125 **-**⊶ Ca II 8542 Å -0.000150.3 0.2 6563.5 65_{64.0} 85_{4]} 8542 8543 15 Time from begin of flare [min] Ca II 8542 Å Contour plot μ -value 1e-7 1e-8 2.0 -210 35 - 1.5 -220 30 = 230 -| arcsec | ∠ −240 -- 1.0 - 0.5 25 0 - 0.0 20 -250 -0.5-260 15

750

>₆₀

770

X [arcsec]

780

790

800

Wavelength [Å]

8540.5 8541.0 8541.5 8542.0 8542.5 8543.0 8543.5

Ηα

35

Contrast profile 52

20

15

35

Voight + Residuals

20

15 -

65_{61.5}

⁶⁵61.5

6562.0

6562.5

⁶⁵62.5

65_{63.0}

6563.5

65_{64.0}

⁶⁵62.0

6563.0

Ηα

Minutes from start of flare [min]