## Analysis of C8.4 flare (2016-05-14) Ca II 8542 Å $\Delta EW$ with $\Delta \lambda = 0.5$ Å. Нα 80 1.0 8.0 **—** Ηα 0.00015 0.00006 **--** Ca II 8542 Å 70 70 0.7 0.8 0.00010 0.00004 Contrast profile 0 0 0 0 0 0 0.6 60 0.00005 0.00002 0.6 0.6 VEW [Å] 4.0 50 0.00000 0.5 0.00000 - 0.5 -0.00005-0.00002 0.4 -0.00010-0.000040.4 30 Minutes from start of flare [min] - 0.3 -0.000150.2 -0.0000620 -0.00020 20 - 0.3 -0.00008 0.2 0.0 85<sub>42.0</sub> 85<sub>43.0</sub> 65<sub>61.5</sub> 65<sub>62.0</sub> <sup>65</sup>62.5 65<sub>63.0</sub> 65<sub>63.5</sub> 65<sub>64.0</sub> 85<sub>41.0</sub> 85<sub>41.5</sub> 85<sub>42.5</sub> 10 20 30 40 50 60 70 Time from begin of flare [min] Ca II 8542 Å Contour plot $\mu$ -value Нα 1e-7 1e-8 80 - 1.5 **-40** 70 - 1.0 <del>-</del>50 -- 0.5 Voight + Residuals 0 0 0 0 60 - 0.0 ∠ [arcsec] -70 <del>-</del>60 · 50 --0.5 **-**2 -1.040 -1.5 30 **-80** -2.0 20 20 -2.5 <del>-</del>90 -85<sub>41.0</sub> 85<sub>41.5</sub> 85<sub>42.0</sub> 85<sub>42.5</sub> 85<sub>43.0</sub> 65<sub>61.5</sub> <sup>65</sup>62.0 <sup>65</sup>62.5 65<sub>63.0</sub> 65<sub>63.5</sub> 65<sub>64.0</sub> 850 860 870 880 890 900 X [arcsec]

Wavelength [Å]