

| 60 Inch Telescope Log | | | Spectrograph: <u>FAST</u> | | | |
|-----------------------------------|----------------|--------|---------------------------|-----|-------------------|----------------------------|
| Observer: <u>CALKINS</u> | | | Grating: <u>3000</u> | | Page: <u>2331</u> | |
| PI: <u>All, Kirchner, Mahdavi</u> | | | Date: <u>5/7/99</u> | | | |
| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
| 1-10 | DARK | | | | 15m | |
| 11-20 | BIAS | | | | 0s | |
| 21-30 | FLAT | | | | 10s | |
| 31-40 | BIAS | | | | 0s | |
| 41-50 | FLAT | | | | 12s | |
| 51-60 | FLAT, blue | | | | 13s | tilt = 585 |
| 61-70 | FLAT, red | w/SK R | filter | | 17s | tilt = 725 w/filter |
| 71-75 | sky | | | #57 | 5s | |
| 76 | comp | | | ↑ | | |
| 77 | N3377 | 10 47 | 13 58 | #57 | 90s | |
| 78 | comp | | | ↑ | | |
| 79 | Feige 66 | 12 37 | 25 04 | #56 | 40s | |
| 80 | comp | | | ↑ | | |
| 81 | Feige 66 | 12 37 | 25 04 | #56 | 40s | PA=66° |
| 82 | comp | | | ↑ | 12s | |
| 83 | Feige 66, blue | 12 37 | 25 04 | #56 | 40s | PA=66°, Tilt=585 |
| 84 | comp | | | ↑ | 13s | |
| 85 | Feige 66, red | 12 37 | 25 04 | #56 | 40s | PA=66°, Tilt=725, w/filter |
| 86 | comp | | | ↑ | 17s | |
| 87 | sn1999by, red | 9 21 | 51 00 | #2 | 8m | PA=49°, Tilt=725, w/filter |
| 88 | comp | | | ↑ | 12s | ⌊ forgot to change comp!! |
| 89 | sn1999by | 9 21 | 51 00 | #2 | 8m | PA=49°, Tilt=610 |
| 90 | comp | | | ↑ | 12s | |
| 91 | sn1999by, blue | 9 21 | 51 00 | #2 | 8m | PA=49°, Tilt=585 |
| 92 | comp | | | ↑ | 13s | |
| 93 | sn1999bg | 12 04 | 62 30 | #2 | 15m | 3" slit!! PA=0° |
| 94 | comp | | | ↑ | | |
| 95 | argb177.285 | 12 02 | 20 13 | #59 | 20m | PA=90° not enough |
| 96 | comp | | | ↑ | | |
| 97 | argb177.293 | 12 02 | 20 01 | #59 | 20m | ↓ |

DARKS STILL HIGH

REDUCED IN 4 SETS:

SET 1 files 75-81 and 89

Set 2 files 93 - end

blue + red

DID NOT TRIM DATA; SOME FILES NEEDED IT - OTHERS DID NOT. P.01
 PIS WILL HAVE TO TRIM IF NECESSARY

| | |
|--|---|
| 60 inch Telescope Log Observer: <u>CALKINS</u> PI: <u>Mahdavi, Rines</u> | Spectrograph: <u>FAST</u> Grating: <u>300 L</u> Date: <u>5/7/99</u> |
|--|---|

| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
|---------|-------------|-------|-------|-----|------|--------------------|
| 98 | comp | | | ↑ | | |
| 99 | nrqb177.294 | 12 02 | 20 13 | #59 | 20m | PA = 90° |
| 100 | comp | | | ↑ | | |
| 101 | nrqb177.295 | 12 02 | 20 42 | #59 | 15m | bright object east |
| 102 | comp | | | ↑ | | |
| 103 | nrqb177.296 | 12 02 | 20 12 | #59 | 20m | PA = 90° |
| 104 | comp | | | ↑ | | |
| 105 | nrqb177.297 | 12 02 | 20 39 | #59 | 8m | |
| 106 | comp | | | ↑ | | |
| 107 | nrqb177.304 | 12 03 | 20 39 | #59 | 6m | |
| 108 | comp | | | ↑ | | |
| 109 | nrqb177.305 | 12 03 | 20 24 | #59 | 20m | |
| 110 | comp | | | ↑ | | |
| 111 | nrqb177.306 | 12 03 | 20 03 | #59 | 7m | |
| 112 | comp | | | ↑ | | |
| 113 | nrqb177.308 | 12 03 | 20 19 | #59 | 8m | |
| 114 | comp | | | ↑ | | |
| 115-116 | sn1999b2 | 14 01 | 68 52 | #59 | 20m | PA = 25° |
| 117 | comp | | | ↑ | | |
| 118 | a2199c.048 | 16 16 | 37 51 | #64 | 7m | |
| 119 | comp | | | ↑ | | |
| 120 | a2199c.049 | 16 17 | 40 05 | #64 | 2.5m | |
| 121 | comp | | | ↑ | | |
| 122 | a2199c.050 | 16 17 | 35 57 | #64 | 7m | |
| 123 | comp | | | ↑ | | |
| 124 | a2199c.051 | 16 17 | 41 26 | #64 | 10m | |
| 125 | comp | | | ↑ | | |
| 126 | a2199c.052 | 16 17 | 43 28 | #64 | 17m | |
| 127 | comp | | | ↑ | | |
| 128 | a2199c.053 | 16 17 | 38 54 | #64 | 5m | |

60 inch Telescope Log

Observer: CALXSUS

PI: Rines, Falco

Spectrograph: FAST

Grating: 300L

Page: 7333

Date: 5/7/99

| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
|--------|------------|-------|-------|-----|------|--------------------------|
| 129 | comp | | | ↑ | | |
| 130 | a2199c.054 | 16 17 | 41 54 | #64 | 11m | |
| 131 | comp | | | ↑ | | |
| 132 | a2199c.055 | 16 17 | 40 56 | #64 | 10m | |
| 133 | comp | | | ↑ | | |
| 134 | a2199c.056 | 16 17 | 40 08 | #64 | 18m | |
| 135 | comp | | | ↑ | | |
| 136 | a2199c.057 | 16 17 | 38 02 | #64 | 6m | |
| 137 | comp | | | ↑ | | |
| 138 | a2199c.058 | 16 18 | 41 23 | #64 | 5m | |
| 139 | comp | | | ↑ | | |
| 140 | a2199c.059 | 16 18 | 41 34 | #64 | 6m | |
| 141 | comp | | | ↑ | | |
| 142 | a2199c.060 | 16 18 | 42 08 | #64 | 4m | |
| 143 | comp | | | ↑ | | |
| 144 | a2199c.061 | 16 19 | 27 04 | #64 | 12m | |
| 145 | comp | | | ↑ | | |
| 146 | a2199c.062 | 16 19 | 36 52 | #64 | 3.5m | |
| 147 | comp | | | ↑ | | |
| 148 | a2199c.063 | 16 19 | 40 11 | #64 | 15m | |
| 149 | comp | | | ↑ | | |
| 150 | a2199c.064 | 16 20 | 36 21 | #64 | 5m | |
| 151 | comp | | | ↑ | | |
| 152 | 18098p4953 | 18 11 | 49 54 | #60 | 2m | |
| 153 | comp | | | ↑ | | |
| 154 | 18122p6955 | 18 11 | 69 54 | #60 | 4m | |
| 155 | comp | | | ↑ | | |
| 156 | 18100p2535 | 18 12 | 25 37 | #60 | 1m | stellar? superposed star |
| 157 | comp | | | ↑ | | |
| 158 | 18100p2535 | 18 12 | 25 35 | #68 | 7m | |

156 - galaxy underneath + to the E of superposed star has H α em (strong)

