

*Fax to Susan Tokarz
Pg 1 of 6*

60 inch Telescope Log
 Observer: PBerberich
 PI: All
 Spectrograph: FAST
 Grating: 3002, 3" slit
 Date: 11/9/00
 Page: 8140

| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
|--------|-------------|--------|-------|-----|-----|------------------|
| 19 | DARK | | | | 20m | |
| 11-20 | BIAS | | | | 0s | circles all over |
| 21-30 | FLAT | | | | 7s | |
| 31-40 | BIAS | | | | 0s | |
| 41-50 | FLAT | | | | 16s | |
| 51-55 | SKY | zenith | | 57 | 7s | |
| 56 | WMP | | | f | | |
| 57-58 | HD 196379 | | | 57 | 7s | Tom, Nurin, All |
| 59 | WMP | | | f | | |
| 60-61 | HD 7427 | | | 57 | 7s | |
| 62 | WMP | | | f | | |
| 63-64 | HD 13076 | | | 57 | 7s | |
| 65 | WMP | | | f | | |
| 66-67 | HD 14433 | | | 57 | 7s | |
| 68 | WMP | | | f | | |
| 69-70 | HD 14489 | | | 57 | 7s | |
| 71 | WMP | | | f | | |
| 72-73 | HD 17378 | | | 57 | 7s | |
| 74 | WMP | | | f | | |
| 75-76 | HD 193702 f | | | 57 | 7s | |
| 77 | WMP | | | f | | |
| 78-79 | HD 17623 | | | 57 | 5s | |
| 80 | WMP | | | f | | |
| 81 | ZM J005717 | 0057 | -0728 | 68 | 4m | |
| 82 | WMP | | | f | | |
| 83 | ZM J010148 | 01-01 | -0451 | 68 | 3m | |
| 84 | WMP | | | f | | |
| 85 | ZM J010198 | 0101 | -0647 | 68 | 2m | |
| 86 | WMP | | | f | | |

60 inch Telescope log
 Observer: PS
 PI: Ken

Spectrograph: FAST
 Grating: 300R
 Date: 11/9/00

Page: 8141

| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
|--------|------------|------|-------|-----|-----|-----------|
| 87 | 2M5002A | 0102 | -0638 | 68 | 2m | |
| 88 | WMP | | | ↑ | | |
| 89 | 2M10138 | 0101 | 0611 | 68 | 3m | |
| 90 | WMP | | | ↑ | | |
| 91 | 2M10547 | 1057 | -0506 | 68 | 5m | twilight. |
| 92 | WMP | | | ↑ | | |
| 93 | 0219236710 | 0219 | +5710 | 93 | 17m | |
| 94 | WMP | | | ↑ | | |
| 95 | 0219236515 | 0219 | +5715 | 93 | 15m | |
| 96 | WMP | | | ↑ | | |
| 97 | SN1999gp | 0239 | +3922 | 2 | 20m | PA=90. |
| 98 | WMP | | | ↑ | | |
| 99 | 0446-123 | 0429 | -0950 | 69 | 8m | clearing! |
| 100 | WMP | | | ↑ | | |
| 101 | 125 | 0427 | -0928 | 69 | 8m | |
| 102 | WMP | | | ↑ | | |
| 103 | 127 | 0427 | -1001 | 69 | 5m | |
| 104 | WMP | | | ↑ | | |
| 105 | 126 | 0443 | -1629 | 69 | 10m | |
| 106 | WMP | | | ↑ | | |
| 107 | 129 | 0425 | -1253 | 69 | 4m | |
| 108 | WMP | | | ↑ | | |
| 109 | 121 | 0446 | -1250 | 69 | 12m | |
| 110 | WMP | | | ↑ | | |
| 111 | 122 | 0452 | -1411 | 69 | 10m | |
| 112 | WMP | | | ↑ | | |
| 113 | 129 | 0439 | -1111 | 69 | 4m | |
| 114 | WMP | | | ↑ | | |
| 115 | 130 | 0416 | -1349 | 69 | 8m | |
| 116 | WMP | | | ↑ | | |

60 inch Telescope Log
 Observer: PB
 PI: Ken

Spectrograph: FAST
 Grating: 3002
 Date: 1/9/60

Page: 8/42

| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
|--------|----------|-------|--------|-----|-----|------------------|
| 117 | a496-131 | 04:46 | -14:37 | 64 | 9m | |
| 118 | COMP | | | ↑ | | |
| 119 | 132 | 04 | -10 | 64 | 4m | |
| 120 | COMP | | | ↑ | | |
| 121 | 133 | 04:39 | -13:14 | 64 | 7m | |
| 122 | COMP | | | ↑ | | |
| 123 | 136 | 04:46 | -15:35 | 64 | 5m | |
| 124 | COMP | | | ↑ | | |
| 125 | SN1969em | 04:41 | -02:52 | 2 | 10m | PA=0 ↓ |
| 126 | COMP | | | ↑ | | |
| 127 | 134 | 04:36 | -08:10 | 64 | 8m | along axis |
| 128 | COMP | | | ↑ | | |
| 129 | 128 | 04:45 | -16:17 | 64 | 6m | 0 to guard bot & |
| 130 | COMP | | | ↑ | | |
| 131 | 135 | 04:47 | -17:02 | 64 | 17m | |
| 132 | COMP | | | ↑ | | |
| 133 | 137 | 04:34 | -08:18 | 64 | 15m | |
| 134 | COMP | | | ↑ | | |
| 135 | 138 | 04:44 | -15:02 | 64 | 6m | |
| 136 | COMP | | | ↑ | | |
| 137 | 139 | 04:17 | -16:10 | 64 | 4m | |
| 138 | COMP | | | ↑ | | |
| 139 | 140 | 04:29 | -18:10 | 64 | 4m | |
| 140 | COMP | | | ↑ | | |
| 141 | 141 | 04:43 | -15:42 | 64 | 4m | |
| 142 | COMP | | | ↑ | | |
| 143 | 143 | 04:41 | -14:11 | 64 | 5m | |
| 144 | COMP | | | ↑ | | |
| 145 | 142 | 04:16 | -17:26 | 64 | 5m | |
| 146 | COMP | | | ↑ | | |

| 60 inch Telescope Log | | | Spectrograph: <u>FAST</u> | | Page: <u>8143</u> | |
|------------------------------|------------|-------|---------------------------|-----|-------------------|--|
| Observer: <u>PB</u> | | | Grating: <u>300</u> | | | |
| PI: <u>Ken/Nuria/Bob/MOG</u> | | | Date: <u>11/9/00</u> | | | |
| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
| 147 | a496-144 | 04:22 | -15:43 | 64 | 5m | |
| 148 | COMP | | | ↑ | | |
| 149 | 148 | 04:23 | -14:02 | 64 | 4m | |
| 150 | COMP | | | ↑ | | |
| 151 | 147 | 04:25 | -09:33 | 64 | 4m | |
| 152 | COMP | | | ↑ | | |
| 153 | 149 | 04:22 | -11:34 | 64 | 4m | |
| 154 | COMP | | | ↑ | | |
| 155 | 145 | 04:48 | -11:26 | 64 | 4m | |
| 156 | COMP | | | ↑ | | |
| 157 | 146 | 04:51 | -14:06 | 64 | 6m | |
| 158 | COMP | | | ↑ | | |
| 159-60 | Hiltner 60 | 06:42 | +02 | 56 | 45s | PA=1 |
| 161 | COMP | | | ↑ | | |
| 162-64 | V380 Mon | 06:40 | +04:48 | 89 | 30s-Sun | |
| 163 | COMP | | | ↑ | | |
| 166-168 | W108 | 06:40 | +04:44 | 89 | 30s-Sun | |
| 169 | COMP | | | ↑ | | |
| 170-72 | V380 Mon | 06:41 | +04:06 | 89 | 1m, 12m | Mix H, K, H-em, Li Fe |
| 173 | COMP | | | ↑ | | |
| 174 | SNUG 4119 | 08:21 | +61 | 2 | 6m | NO SN |
| 175 | COMP | | | ↑ | | |
| 176 | 08472a | 08:17 | +75 | 123 | 10m | "b" is a PF. |
| 177 | COMP | | | ↑ | | |
| 178 | 083151p ab | 08:31 | +01:39 | 123 | 20m | PA=57 0 b row 110 0 a row 78 |
| 179 | COMP | | | ↑ | | |
| 180 | 084906 ab | 08:51 | +02:02 | 103 | 20m | PA=8 0 b-117 0 a row 76 |
| 181 | COMP | | | ↑ | | |
| 182 | 08530 a | 08:54 | +03:32 | 123 | 8m | PA=8 |
| 183 | COMP | | | ↑ | | COMP PROC |

| 60 inch Telescope Log | | | Spectrograph: <u>FAST</u> | | Page: <u>8144</u> | |
|-----------------------|------------------|-------|---------------------------|-----|-------------------|---|
| Observer: <u>PB</u> | | | Grating: <u>300</u> | | | |
| PI: <u>Betsy</u> | | | Date: <u>1/9/00</u> | | | |
| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
| 184 | 085130b | 08:51 | +39 49 | 123 | 20m | PA=26L |
| 185 | COMP | | | ↑ | | |
| 186 | 091256 ab | 09:15 | +11 53 | 123 | 20m | PA=26L a row 107 } b row 40 |
| 187 | COMP | | | ↑ | | |
| 188 | SN1999gh | 09:49 | -21 | 2 | 20m | PA=4 |
| 189 | COMP | | | ↑ | | |
| 190 | SN1999gi | 10:18 | -40 | 2 | 12m | PA=4 |
| 191 | COMP | | | ↑ | | |
| 192 | 091454 a | 09:17 | -10 37 | 123 | 15m | |
| 193 | COMP | | | ↑ | | |
| 194.5 | Ferze 34 | 10 36 | -76 | 56 | 90s | |
| 196 | COMP | | | ↑ | | |
| 197 | 091546 | 09:17 | -2 34 | 123 | 15m | |
| 198 | COMP | | | ↑ | | |
| 199 | 092442 b | 09:27 | +44 33 | 123 | 20m | |
| 200 | COMP | | | ↑ | | |
| 201 | 115224 pds | 11:55 | +06 44 | 123 | 8m | PA=50 |
| 202 | COMP | | | ↑ | | |
| 203 | 115606 pds ab | 11:58 | +75 02 | 123 | 20m | PA=16 b row 102 } a row 82 |
| 204 | COMP | | | ↑ | | |
| 205 | 120612 pds oc | 12:09 | +07:16 | 123 | 20m | |
| 206 | COMP | | | ↑ | | |
| 207 | 125212 a | 12:51 | +08:03 | 123 | 12m | |
| 208 | COMP | | | ↑ | | |
| 209 | 125212 bc | 12:55 | +08 03 | 123 | 12m | PA=85 c row 106 } b row 82 |
| 210 | COMP | | | ↑ | | |
| 211 | ngs 241.20 NE NW | 13:20 | +73 | 59 | 4m | PA=68 NE row 44 } NW row 81 |
| 212 | ngs 241.20 | " | " | 59 | 2m | |
| 213 | COMP | | | ↑ | | NE row 44 } NW 20 |

| 60 inch Telescope Log | | | Spectrograph: <u>FAST</u> | | Page: <u>8145</u> | |
|-----------------------|-----------|-------|---------------------------|-----|-------------------|--------------|
| Observer: <u>PB</u> | | | Grating: <u>3002</u> | | | |
| PI: <u>Scott</u> | | | Date: <u>1/9/00</u> | | | |
| Number | Object | R. A. | Dec. | L/R | Exp | Comments |
| 21425 | TYCWn | 12:14 | +3645 | 12 | 5-30s | |
| 216 | WMP | | | F | | |
| 21720 | RW Hya | 13:31 | -2522 | 12 | 1s-1m | |
| 221 | WMP | | | F | | |
| 222-21 | DT22d3873 | 14:16 | -2145 | 12 | 5-5s | |
| 225 | WMP | | | F | | |
| 226 | H244 | 13:36 | -26 | 56 | 2m | |
| 227 | WMP | | | F | | clear & dark |
| 228-257 | BIAS | | | | 0s | ~ |
| 228-271 | FLAT | | | | 7s | |
| 228-287 | BIAS | | | | 0s | |
| 228-287 | FLAT | | | | 16s | |