

60 inch Telescope Log

Observer: P. Barlow

PI: Huchra

Spectrograph: FAST

Grating: 3000, 3", 6" by 4" + 5"

Page: 3827

Date: 6/22/95

| Number | Object     | R.A.       | Dec.        | L/R | Exp | Comments                        |
|--------|------------|------------|-------------|-----|-----|---------------------------------|
| 10     | BARS       |            |             |     | 0s  |                                 |
| 11-20  | FLAT       |            |             |     | 6s  |                                 |
| 21-25  | sky        |            |             |     | 2s  | 7:45                            |
| 26     | COMP       |            |             | -   | 10s |                                 |
| 27-31  | HD156711   | 15:21      | +18:24      | 0   | 4s  |                                 |
| 32     | COMP       |            |             | ↑   |     |                                 |
| 33-35  | H214       | 13:21      | +36:23      | 0   | 90s | 5" slit, for Nelson + Dan F.    |
| 36     | COMP       |            |             | ↑   | 7s  | ~12                             |
| 37, 38 | MRK421     | 11:01      | +38:28      | 6   | 2m  | Emilio is also doing this @ 48" |
| 39     | COMP       |            |             | ↑   | 7s  | 5" slit                         |
| 40-42  | H214       | 13:21      | +36:23      | 0   | 90s | 5" slit                         |
| 43     | COMP       |            |             | ↑   | 7s  |                                 |
| 44, 45 | N4486B     | 12:28      | +12:45      | 0   | 4m  | 3" slit is back in +90          |
| 46     | COMP       |            |             | ↑   |     | 1501 1988                       |
| 47     | 317.03149S | 11:11:13.3 | +28:41:45   | 3   | 4m  | 8600 South Comp                 |
| 48     | 317.03149N | 11:11:13.2 | +28:42:40   | 3   | 5m  | 4825 North                      |
| 49     | COMP       |            |             | ↑   |     |                                 |
| 50     | DZ25       | 12:58:29.4 | +28:48:01.5 | 1   | 10m | for Nelson                      |
| 51     | COMP       |            |             | ↑   |     |                                 |
| 52     | 11449p0303 | 11:47:37.7 | +02:47:30   | 1   | 5m  | H <sub>α</sub>                  |
| 53     | COMP       |            |             | ↑   |     |                                 |
| 54     | 12003p053  | 12:03:00.1 | +05:37:31   | 1   | 10m | H <sub>α</sub>                  |
| 55     | COMP       |            |             | ↑   |     |                                 |
| 56     | I353       | 12:19:39.9 | +05:24:42   | 1   | 5m  | H <sub>α</sub>                  |
| 57     | COMP       |            |             | ↑   |     |                                 |
| 58     | N4266      | 12:19:49.0 | +05:33:42   | 1   | 4m  |                                 |
| 59     | COMP       |            |             | ↑   |     |                                 |
| 60     | 12194p0523 | 12:22:07.9 | +05:07:26   | 1   | 4m  | * on slit to W                  |
| 61     | COMP       |            |             | ↑   |     |                                 |
| 62     | 12203p0524 | 12:22:57.8 | +05:08:45   | 1   | 4m  | H <sub>α</sub>                  |

| 60 inch Telescope Log       |             |            |              | Spectrograph: <u>FAST</u> |     | Page: <u>3828</u>      |  |
|-----------------------------|-------------|------------|--------------|---------------------------|-----|------------------------|--|
| Observer: <u>P. Berland</u> |             |            |              | Grating: <u>300L, 3"</u>  |     |                        |  |
| PI: <u>Huchra/Kessler</u>   |             |            |              | Date: <u>6/22/95</u>      |     |                        |  |
| Number                      | Object      | R.A.       | Dec.         | L/R                       | Exp | Comments               |  |
| 63                          | COMP        |            |              | ↑                         |     |                        |  |
| 64                          | 12204p0502  | 12:23:038  | +02:46:45    | 1                         | 5m  |                        |  |
| 65                          | COMP        |            |              | ↑                         |     |                        |  |
| 66                          | 13034p0413  | 13:05:56.7 | +03:59:00    | 1                         | 4m  |                        |  |
| 67                          | COMP        |            |              | ↑                         |     |                        |  |
| 68                          | 13142p0757W | 13:14:12   | +07:57:00    | S                         | 4m  |                        |  |
| 69                          | 13142p0757E | 13:14:12   | +07:57:00    | S                         | 5m  | * + W                  |  |
| 70                          | COMP        |            |              | ↑                         |     |                        |  |
| 71                          | 13272m0002  | 13:27:14.7 | -00:02:116   | S                         | 10m | H <sub>α</sub>         |  |
| 72                          | COMP        |            |              | ↑                         |     |                        |  |
| 73                          | 13290m0146  | 13:28:57   | -04:45:418   | S                         | 10m | H <sub>α</sub>         |  |
| 74                          | COMP        |            |              | ↑                         |     |                        |  |
| 75                          | N5202       | 13:29:26.0 | +76:32       | S                         | 8m  |                        |  |
| 76                          | COMP        |            |              | ↑                         |     |                        |  |
| 77                          | 13299p0503  | 13:29:54   | +05:03:00    | S                         | 8m  | H <sub>α</sub>         |  |
| 78                          | COMP        |            |              | ↑                         |     |                        |  |
| 79                          | 13299p0351  | 13:29:57.7 | +03:51:07.57 | S                         | 8m  | H <sub>α</sub>         |  |
| 80                          | COMP        |            |              | ↑                         |     |                        |  |
| 81                          | 14417p2952  | 14:41:43.7 | +29:52:51    | 1                         | 5m  | for Chaffee/Lipovetsky |  |
| 82                          | COMP        |            |              | ↑                         |     |                        |  |
| 83                          | 14406p2916  | 14:40:34.2 | +29:16:40    | 1                         | 10m |                        |  |
| 84                          | COMP        |            |              | ↑                         |     |                        |  |
| 85                          | 14399p2855  | 14:39:57   | +28:55:46    | 1                         | 10m | 10 <sub>2</sub>        |  |
| 86                          | COMP        |            |              | ↑                         |     |                        |  |
| 87                          | 328.023413  | 15:45      | +27:28       | 3                         | 5m  |                        |  |
| 88                          | COMP        |            |              | ↑                         |     |                        |  |
| 89                          | 328.023601  | 15:45      | +27:29       | 3                         | 5m  |                        |  |
| 90                          | COMP        |            |              | ↑                         |     |                        |  |
| 91                          | 328.024232  | 15:40      | +27:28       | 3                         | 4m  |                        |  |
| 92                          | COMP        |            |              | ↑                         |     |                        |  |

CR 02021

2110  
2100 = 6725  
242

60 inch Telescope Log

Observer: P. BarlowPI: GellerSpectrograph: F&TGrating: 3002Date: 6/22/95Page: 3829

| Number   | Object     | R.A.     | Dec.   | L/R | Exp | Comments                 |
|----------|------------|----------|--------|-----|-----|--------------------------|
| 93       | 328.028562 | 15:51    | +27:20 | 3   | 4m  |                          |
| 94       | COMP       |          |        | ↑   |     |                          |
| 95       | 328.028557 | 15:52    | +27:53 | 3   | 4m  |                          |
| 96       | COMP       |          |        | ↑   |     |                          |
| 97       | 328.028520 | 15:53    | +27:40 | 3   | 10m |                          |
| 98       | COMP       |          |        | ↑   |     |                          |
| 99       | 328.028517 | 15:47    | +27:48 | 3   | 4m  |                          |
| 100      | COMP       |          |        | ↑   |     |                          |
| 101      | 328.031087 | 15:40    | +27:45 | 3   | 7m  |                          |
| 102      | COMP       |          |        | ↑   |     |                          |
| 103      | 328.031003 | 15:54    | +27:49 | 3   | 5m  |                          |
| 104      | COMP       |          |        | ↑   |     |                          |
| 105      | 328.032385 | 15:52    | +27:51 | 3   | 4m  |                          |
| 106      | COMP       |          |        | ↑   |     |                          |
| 107      | 328.032542 | 15:51026 | +27:52 | 3   | 4m  | bright star to W on slit |
| 108      | COMP       |          |        | ↑   |     |                          |
| 109      | 328.032625 | 15:42    | +27:53 | 3   | 5m  |                          |
| 110      | COMP       |          |        | ↑   |     |                          |
| 111, 113 | 328.032863 | 15:36    | +27:53 | 3   | 4m  | 2/16 x2                  |
| 112, 114 | COMP       |          |        | ↑   |     |                          |
| 115      | 328.032896 | 15:37    | +27:54 | 3   | 5m  |                          |
| 116      | COMP       |          |        | ↑   |     |                          |
| 117      | 328.033001 | 15:51    | +27:53 | 3   | 5m  |                          |
| 118      | COMP       |          |        | ↑   |     |                          |
| 119      | 328.033144 | 15:50    | +27:51 | 3   | 5m  |                          |
| 120      | COMP       |          |        | ↑   |     |                          |
| 121      | 328.033445 | 15:47    | +27:55 | 3   | 5m  |                          |
| 122      | COMP       |          |        | ↑   |     |                          |
| 123      | 328.034262 | 15:48    | +27:57 | 3   | 5m  |                          |
| 124      | COMP       |          |        | ↑   |     |                          |

1113 = sum of 111 + 113

| 60 inch Telescope Log            |            | Spectrograph: <u>FAST</u> |             | Page: <u>3830</u>    |     |                                |
|----------------------------------|------------|---------------------------|-------------|----------------------|-----|--------------------------------|
| Observer: <u>P. Berland</u>      |            | Grating: <u>3000</u>      |             | Date: <u>6/22/95</u> |     |                                |
| PI: <u>Huchra/Wilkens/Geller</u> |            |                           |             |                      |     |                                |
| Number                           | Object     | R.A.                      | Dec.        | L/R                  | Exp | Comments                       |
| 125                              | 378.036207 | 15:41:35                  | +28:02:36   | 3                    | 4m  |                                |
| 126                              | COMP       |                           |             | ↑                    |     |                                |
| 127                              | 15504p6113 | 15:51                     | +41:01      | 1                    | 3m  | Comp on slit to W H $\alpha$   |
| 128                              | COMP       |                           |             | ↑                    |     | should be readable             |
| 129                              | 15597p5852 | 15:59                     | +58:29      | 1                    | 4m  | H $\alpha$                     |
| 130                              | COMP       |                           |             | ↑                    |     |                                |
| 131                              | 16073p5805 | 16:08                     | +57:57      | 1                    | 2m  |                                |
| 132                              | COMP       |                           |             | ↑                    |     |                                |
| 133                              | NG688A     | 16:10                     | +57:28      | 1                    | 2m  | North                          |
| 134                              | NG688B     | 16:10                     | +57:28      | 1                    | 5m  | South Comp strong H $\alpha$   |
| 135                              | COMP       |                           |             | ↑                    |     |                                |
| 136                              | 16098p5237 | 16:11                     | +52:27      | 1                    | 3m  |                                |
| 137                              | COMP       |                           |             | ↑                    |     | moon's up                      |
| 138                              | 16105p5855 | 16:11                     | +58:47      | 1                    | 2m  |                                |
| 139                              | COMP       |                           |             | ↑                    |     |                                |
| 140                              | NG698      | 16:35                     | +57:30      | 1                    | 2m  |                                |
| 141                              | COMP       |                           |             | ↑                    |     |                                |
| 142                              | 16403p5926 | 16:40                     | +59:20      | 1                    | 4m  | H $\alpha$                     |
| 143                              | COMP       |                           |             | ↑                    |     |                                |
| 144                              | 16469p4942 | 16:48                     | +49:36      | 1                    | 3m  |                                |
| 145                              | COMP       |                           |             | ↑                    |     |                                |
| 146                              | PG1706p602 | 17:08:35.9                | +60:13:52   | 6                    | 3m  |                                |
| 147                              | COMP       |                           |             | ↑                    |     |                                |
| 148                              | 3C3903     | 18:45:57                  | +77:43:06   | 6                    | 5m  |                                |
| 149                              | COMP       |                           |             | ↑                    |     |                                |
| 150                              | S18.126104 | 21:43:28.27               | +12:49:24.3 | 3                    | 10m | Finishes the plate! H $\alpha$ |
| 151                              | COMP       |                           |             | ↑                    |     |                                |
| 152                              | S19.032869 | 22:02:58                  | +10:38:08   | 3                    | 8m  | H $\alpha$                     |
| 153                              | COMP       |                           |             | ↑                    |     |                                |
| 154                              | S19.033805 | 22:11:16.73               | +10:38:28   | 3                    | 8m  |                                |

60 inch Telescope Log

Observer: P. BerndtPI: KaplanSpectrograph: FASTGrating: 30LDate: 6/22/95Page: 3831

| Number        | Object    | R. A.      | Dec.      | L/R | Exp                | Comments             |
|---------------|-----------|------------|-----------|-----|--------------------|----------------------|
| 155           | COMP      |            |           | ↑   |                    |                      |
| 156-159       | BDp284211 | 21:48:57.1 | +78:57:48 | 12  | 30s                |                      |
| 160           | COMP      |            |           | ↑   |                    |                      |
| 161           | V1515Cyg  | 21:45:27   | +47:18:04 | 12  | 15m                |                      |
| 162           | COMP      |            |           | ↑   |                    |                      |
| 163           | V1057Cyg  | 20:57:03   | +44:03:46 | 12  | 3m                 |                      |
| 164           | COMP      |            |           | ↑   |                    |                      |
| 165, 166      | YHer      | 18:12      | +70:58    | 12  | 10s, 3m            |                      |
| 167           | COMP      |            |           | ↑   |                    |                      |
| 168, 169, 171 | V443Her   | 18:20      | +73:25    | 12  | 3s, 2m, 1m         |                      |
| 170           | COMP      |            |           | ↑   |                    |                      |
| 172, 173, 174 | B3Fcyg    | 19:21:55   | +29:34:30 | 12  | 15s, 2m, 3s        |                      |
| 175           | COMP      |            |           | ↑   |                    |                      |
| 176, 177      | CHCyg     | 19:23:14.2 | +50:08:31 | 12  | 0.5s, 3s           |                      |
| 178           | COMP      |            |           | ↑   |                    |                      |
| 179, 180      | HMSqe     | 19:39:41   | +16:37:33 | 12  | 1s, 2s             |                      |
| 181           | COMP      |            |           | ↑   |                    |                      |
| 182, 183, 185 | CECyg     | 19:48      | +35:33    | 12  | 1s, 4s, 30s        |                      |
| 184           | COMP      |            |           | ↑   |                    |                      |
| 186, 187, 188 | V1016Cyg  | 19:55      | +39:41    | 12  | 0.5s, 1s, 30s      |                      |
| 189           | COMP      |            |           | ↑   |                    | Does not end as comp |
| 190, 191      | Pumi      | 20:19      | +71:24    | 12  | 1s, 30s            |                      |
| 192           | COMP      |            |           | ↑   |                    |                      |
| 193, 194      | V1329Cyg  | 20:49      | +35:23    | 12  | 3s, 2m             |                      |
| 195           | COMP      |            |           | ↑   |                    |                      |
| 196, 197, 199 | AGPcyg    | 21:48      | +12:23    | 12  | 3s, 0.5s, 12s, 8s  |                      |
| 198           | COMP      |            |           | ↑   |                    |                      |
| 200-203       | ZAnd      | 23:31:15   | +48:52    | 12  | 2s, 0.5s, 12s, 25s |                      |
| 204           | COMP      |            |           | ↑   |                    |                      |
| 205-207       | EGAnd     | 00:41      | +40:24    | 12  | 1s, 0.5s, 2s       |                      |

189, 190

191

192, 193

194

195, 196, 197, 198

