

FAX to Susan Takatz pg 1 of 5

BEAUTIFUL DATA ALL NIGHT LONG.
EVERYTHING OK -

| 60 inch Telescope Log | | | Spectrograph: <u>FAST</u> | | Page: <u>5574</u> | |
|-----------------------------|-------------|--------|---------------------------|-----|-------------------|---------------------------------|
| Observer: <u>P. Berland</u> | | | Grating: <u>300L</u> | | | |
| PT: <u>All</u> | | | Date: <u>7/11/97</u> | | | |
| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
| 1-10 | BIAS | | | 0 | 0s | |
| 11-20 | FLAT | | | 0 | 6s | |
| 21-30 | BIAS | | | 0 | 0s | <i>bimby 2</i> |
| 31-40 | FLAT | | | 0 | 12s | <i>bimby 2</i> |
| 41-45 | sky | zenith | | 57 | 2s | |
| 46 | COMP | | | ↑ | | |
| 47-49 | HD139641 | 15:57 | +40:21 | 57 | 1s | <i>cirrus; scattered clouds</i> |
| 50 | | | | ↑ | | |
| 51-53 | HD141527 | 15:48 | +28:09 | 57 | 2s | |
| 54 | | | | ↑ | | |
| 55-57 | HD143761 | 16:01 | +33:18 | 57 | 2s | |
| 58 | COMP | | | ↑ | | |
| 59-60 | F-amp 66 | 12:51 | +25:20 | 56 | 45s | |
| 61 | COMP | | | ↑ | | |
| 62 | N4151 | 12:08 | +39:41 | 6 | 35s | |
| 63 | COMP | | | ↑ | | |
| 64 | N4288 | 12:16 | +47:34 | 6 | 2m | |
| 65 | COMP | | | ↑ | | |
| 66 | N4081 | 12:00 | +44:48 | 6 | 2m | |
| 67 | COMP | | | ↑ | | |
| 68 | H244 | 13:21 | +76:06 | 56 | 2m | |
| 69 | COMP | | | ↑ | | |
| 70 | N5548 | 14:15 | +25:22 | 6 | 3m | |
| 71 | COMP | | | ↑ | | |
| 72 | MRK09 | 13:51 | +69:37 | 6 | 3m | |
| 73 | COMP | | | ↑ | | |
| 74 | 12537p7106N | 12:53 | +71:06 | 1 | 3m | |
| 75 | 12537p7106S | 12:53 | +71:06 | 1 | 6m | |
| 76 | COMP | | | ↑ | | |

60 inch Telescope Log

Observer: PB
 PI: Huchra's Griller

Spectrograph: FAST
 Grating: 40L
 Date: 7/11/97

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| Number | Object | R. A. | Dec. | I/R | Exp | Comments |
|--------|--------------|-------|---------|-----|-----|-------------------------------------|
| 77 | 12551 p 718N | 12:55 | +79:18 | 1 | 5m | clouds... |
| 78 | 12551 p 718S | 12:55 | +79:18 | 1 | 8m | |
| 79 | WMP | | | ↑ | | |
| 80 | 12564 p 7142 | 12:56 | +71:42 | 1 | 6m | |
| 81 | WMP | | | ↑ | | |
| 82 | AC00277E | 14:19 | +76:17 | 60 | 4m | em |
| 83 | AC00277W | 14:15 | +76:17 | 60 | 7m | em |
| 84 | WMP | | | ↑ | | |
| 85 | Z013062N | 14:19 | +106:08 | 60 | 7m | em |
| 86 | Z013062S | 14:19 | +106:08 | 60 | 7m | |
| 87 | WMP | | | ↑ | | |
| 88 | Z005136W | 14:24 | +101:10 | 60 | 6m | |
| 89 | WMP | | | ↑ | | |
| 90 | Z005136E | 14:24 | +101:10 | 60 | 9m | bin by 2 sup * to W |
| 91 | WMP | | | ↑ | | em p 2 20S quid quid em! |
| 92 | Z004414N | 14:27 | +104:49 | 60 | 5m | em |
| 93 | Z004414S | 14:27 | +104:49 | 60 | 6m | wk em |
| 94 | WMP | | | ↑ | | |
| 95 | Z012918E | 14:30 | +10:14 | 60 | 6m | AGN! |
| 96 | Z012918W | 14:30 | +10:14 | 60 | 6m | |
| 97 | WMP | | | ↑ | | |
| 98 | Z008165 | 14:31 | +105:18 | 60 | 10m | |
| 99 | WMP | | | ↑ | | |
| 100 | Z011153E | 14:33 | +103:44 | 60 | 5m | |
| 101 | Z011153W | 14:33 | +103:44 | 60 | 5m | |
| 102 | WMP | | | ↑ | | |
| 103 | Z006000 | 14:34 | +103:46 | 60 | 4m | * to E |
| 104 | WMP | | | ↑ | | |
| 105 | AC00256 | 14:35 | +10:20 | 60 | 5m | em+ |
| 106 | WMP | | | ↑ | | |

60 inch Telescope Log

Observer: PB
 PI: Geller & Muchra

Spectrograph: FAST

Grating: 3WL

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Date: 7/11/97

| Number | Object | R. A. | Dec. | L/R | Exp | Comments |
|--------|-----------------|-------|--------|-----|-----|-----------------------------------|
| 107 | Z013242 | 14:36 | +11:24 | 60 | 5m | wk em |
| 108 | COMP | | | ↑ | | |
| 109 | A00706 N | 14:38 | +10:10 | 60 | 6m | |
| 110 | A00706 S | 14:38 | +10:10 | 60 | 6m | |
| 111 | COMP | | | ↑ | | |
| 112 | Z008771 | 14:42 | +10:13 | 60 | 4m | |
| 113 | COMP | | | ↑ | | |
| 114 | Z013074 | 14:40 | +10:25 | 60 | 5m | |
| 115 | COMP | | | ↑ | | |
| 116 | Z007073W | 14:40 | +10:22 | 60 | 3m | |
| 117 | Z007073E | 14:40 | +10:22 | 60 | 4m | |
| 118 | COMP | | | ↑ | | |
| 119 | Z008422 | 14:41 | +18:33 | 60 | 5m | |
| 120 | COMP | | | ↑ | | |
| 121 | N000895 S | 14:36 | +39:56 | 60 | 5m | |
| 122 | N000895 N | 14:36 | +39:56 | 60 | 12m | em |
| 123 | COMP | | | ↑ | | |
| 124 | Z004627 | 14:38 | +28:30 | 60 | 6m | |
| 125 | COMP | | | ↑ | | |
| 126 | Z010717 | 14:38 | +46:41 | 60 | 5m | |
| 127 | COMP | | | ↑ | | |
| 128 | Z004073 | 14:39 | +42:44 | 60 | 10m | → * to E extended gal; nice em |
| 129 | COMP | | | ↑ | | |
| 130 | 160255 p 185057 | 16:02 | +18:50 | 25 | 15m | bn by 2; * to E |
| 131 | COMP | | | ↑ | | wk em piz 22471 |
| 132 | 160011 p 155960 | 16:00 | +15:59 | 25 | 15m | |
| 133 | COMP | | | ↑ | | |
| 134 | 160300 p 171410 | 16:03 | +17:44 | 25 | 15m | em |
| 135 | COMP | | | ↑ | | |

60 inch Telescope Log

Observer: PBS

PI: Huchra

Spectrograph: FAST

Grating: 30R

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Date: 7/11/97

| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
|--------|---------------|-------|--------|-----|-----|--------------------|
| 136 | 3C390.3 | 18:45 | +79:43 | 6 | 12m | |
| 137 | WMP | | | ↑ | | |
| 138 | 17005 p6020 | 17:10 | +60:20 | 1 | 10m | em |
| 139 | WMP | | | ↑ | | |
| 140 | 17018 p6114 | 17:01 | +61:14 | 1 | 6m | em |
| 141 | WMP | | | ↑ | | |
| 142 | 17026 p6132SE | 17:02 | +61:32 | 1 | 4m | em Balmer abs |
| 143 | 17026 p6132NW | 17:02 | +61:32 | 1 | 6m | em |
| 144 | WMP | | | ↑ | | |
| 145 | 17109 p4750W | 17:10 | +47:50 | 1 | 5m | * to W ; em |
| 146 | 17109 p4750E | 17:10 | +47:50 | 1 | 7m | em |
| 147 | WMP | | | ↑ | | |
| 148 | 17383 p4320 | 17:38 | +43:20 | 1 | 4m | |
| 149 | WMP | | | ↑ | | |
| 150 | 17430 p5034E | 17:43 | +50:34 | 1 | 7m | em |
| 151 | 17430 p5034W | 17:43 | +50:34 | 1 | 5m | wk |
| 152 | WMP | | | ↑ | | |
| 153 | 17435 p5551 | 17:43 | +55:51 | 1 | 3m | comp to W |
| 154 | WMP | | | ↑ | | |
| 155 | 17446 p2903 | 17:44 | +29:03 | 1 | 3m | band lines em |
| 156 | WMP | | | ↑ | | |
| 157 | 17457 p1741 | 17:45 | +17:41 | 1 | 6m | wk em; *'s on slit |
| 158 | WMP | | | ↑ | | pix 20518 |
| 159 | 17466 p3405 | 17:46 | +34:05 | 1 | 5m | em |
| 160 | WMP | | | ↑ | | |
| 161 | 17458 p5810 | 17:45 | +58:40 | 1 | 5m | |
| 162 | WMP | | | ↑ | | |
| 163 | 17479 p5826 | 17:47 | +58:26 | 1 | 5m | bm by 2; * to W |
| 164 | WMP | | | ↑ | | |
| 165 | 17470 p5215 | 17:47 | +52:15 | 1 | 8m | em |

60 inch Telescope Log

Observer: PB

PI: Gretchen Wilkes

Spectrograph: FAST

Grating: 3WE

Date: 7/11/97

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| Number | Object | R. A. | Dec. | L/R | Exp | Comments |
|---------|------------|-------|--------|-----|------------|------------|
| 166 | COMP | | | ↑ | | |
| 167 | N0033X | 00:08 | +35:33 | 60 | 10m | <u>em!</u> |
| 168 | COMP | | | ↑ | | |
| 169 | Z010689S | 00:16 | +03:51 | 60 | 4m | |
| 170 | Z010689N | 00:16 | +03:51 | 60 | 5m | |
| 171 | COMP | | | ↑ | | |
| 172 | Z00491S | 00:17 | +06:11 | 60 | 6m | * + E emt |
| 173 | COMP | | | ↑ | | |
| 174 | Z006666 | 00:37 | +08:43 | 60 | 5m | emt |
| 175 | COMP | | | ↑ | | |
| 176 | Z003660E | 00:45 | +01:04 | 60 | 5m | |
| 177 | Z003660W | 00:45 | +01:04 | 60 | 6m | |
| 178 | COMP | | | ↑ | | |
| 179 | N7469 | 23:03 | +08:52 | 6 | 2m | |
| 180 | COMP | | | ↑ | | |
| 181 | Z25m280 | 00:41 | +14:05 | 56 | 4m | |
| 182 | COMP | | | ↑ | | |
| 183 | MRK335 | 00:03 | +19:55 | 6 | 3m | |
| 184 | COMP | | | ↑ | | |
| 185-186 | BDP 284211 | 21:48 | +28:37 | 56 | 1m | |
| 187 | COMP | | | ↑ | | |
| 188-190 | CIC 48 | 19:50 | +35:11 | 12 | 10, 20, 2s | |
| 191 | COMP | | | ↑ | | |
| 192-194 | HDP 92281 | 20:10 | +40:07 | 56 | 5s | |
| 195 | COMP | | | ↑ | | |
| 196-198 | HDP 29196 | 20:23 | +40:52 | 57 | 6s | |
| 199 | COMP | | | ↑ | | |
| 200-202 | HDP 9592 | 20:30 | +40:18 | 57 | 6s | |
| 203 | COMP | | | ↑ | | |
| 204-213 | BIAS | | | 0 | 0s | |
| 214-223 | FLAT | | | 0 | 6s | |
| 224-233 | BIAS | | | 0 | 0s | bmbz |
| 234-243 | FLAT | | | 0 | 12s | bmbz |