

60 inch Telescope Log

Observer: CALICENA

PI: All, Kirshner, Huchra

Spectrograph: FAST

Grating: 300L

Page: 7022

Date: 2/22/99

| Number | Object | R. A. | Dec. | L/R | Exp | Comments |
|--------|-------------|-------|-------|-----|------|---------------------|
| 1-9 | DARK | | | | 15m | |
| 10-19 | BEAS | | | | 02s | |
| 20-29 | FLAT | | | | 6s | |
| 30-39 | BEAS | | | | 0s | |
| 40-49 | FLAT | | | | 12s | |
| 50-54 | sky | | | #57 | 2s | |
| 55 | comp | | | ↑ | | scattered cirrus |
| 56 | H214 | 4 41 | 10 59 | #56 | 6m | @ sunset |
| 57 | comp | | | ↑ | | |
| 58 | M31 | 00 42 | 41 16 | #57 | 90s | |
| 59 | comp | | | ↑ | | |
| 60 | MRK335 | 00 06 | 20 12 | #6 | 3m | |
| 61 | comp | | | ↑ | | |
| 62 | sn1998es | 01 37 | 05 52 | #2 | 15m | PA=56°, star "east" |
| 63 | comp | | | ↑ | | |
| 64 | Hiltner 600 | 06 45 | 02 07 | #56 | 1m | PA=26° |
| 65 | comp | | | ↑ | | |
| 66 | 2M014807.2p | 01 48 | 40 26 | #68 | 20m | thru thin clouds |
| 67 | comp | | | ↑ | | |
| 68 | 2M014713.3p | 01 47 | 33 01 | #68 | 20m | PA=0°, clouds |
| 69 | comp | | | ↑ | | |
| 70 | 2M071647.2p | 07 16 | 03 51 | #68 | 15m | |
| 71 | comp | | | ↑ | | |
| 72 | 2M071550.9p | 07 15 | 04 32 | #68 | 6m | |
| 73 | comp | | | ↑ | | |
| 74 | 2M075205.2p | 7 52 | 23 29 | #68 | 3.5m | stellar? |
| 75 | comp | | | ↑ | | |
| 76 | 2M075240.8p | 7 52 | 18 22 | #68 | 3.5m | |
| 77 | comp | | | ↑ | | |
| 78 | 2M070354.6p | 7 03 | 20 08 | #68 | 10m | |

| 60 inch Telescope Log | | | | Spectrograph: <u>FAST</u> | | |
|---|-----------------|-------|-------|---------------------------|-----------|--------------------------|
| Observer: <u>CALKINS</u> Mink | | | | Grating: <u>300L</u> | | Page: <u>7023</u> |
| PI: <u>Huchra, Garcia, Kenyon, Kitchner</u> | | | | Date: <u>2/22/99</u> | | |
| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
| 79 | comp | | | ↑ | | |
| 80 | 2M070615-7p | 7 06 | 20 57 | #68 | 12m | PA = 70°, central object |
| 81 | comp | | | ↑ | | |
| 82 | 2M071456-3p | 7 46 | 22 17 | #68 | 3.5m | |
| 83 | comp | | | ↑ | | |
| 84 | 2M071545-1p | 7 15 | 5 14 | #68 | 12m | |
| 85 | comp | | | ↑ | | |
| 86 | 2M070458-8p | 7 05 | 18 50 | #68 | 5m | |
| 87 | comp | | | ↑ | | |
| 88-90 | CICam | 4 19 | 56 00 | #107 | 2, 20, 90 | |
| 91 | comp | | | ↑ | | |
| 92 | BGGem | 6 03 | 27 41 | #100 | 7m | |
| 93 | comp | | | ↑ | | |
| 94 | sn1999aa | 8 27 | 21 29 | #2 | 17m | clouds, PA = 11° |
| 95 | comp | | | ↑ | | |
| 96 | sn1999X | 8 54 | 26 31 | #2 | 20m | PA = 34°, gal "west" |
| 97 | comp | | | ↑ | | |
| 98 | sn1999z | 10 22 | 27 21 | #2 | 20m | PA = 71°, gal "east" |
| 99 | comp | | | ↑ | | |
| 100 | 980112.105.3583 | 9 18 | 21 17 | #78F | 15m | Tilt = 672.0 |
| 101 | comp | | | ↑ | | |
| 102 | EY mmtspect 740 | 10 19 | 29 41 | #78F | 15m | |
| 103 | comp | | | ↑ | | |
| 104 | 970602.19.1786 | 11 44 | 20 10 | #78F | 20m | object east |
| 105 | comp | | | ↑ | | |
| 106 | 320.089279 | 12 19 | 32 12 | #78F | 15m | |
| 107 | comp | | | ↑ | | |
| 108 | 121941p0009E | 12 22 | 00 07 | #78F | 10m | (Binary System) |
| 109 | comp | | | ↑ | | |
| 110 | HS1259220 | 13 01 | 21 43 | #78F | 7m | |

60 inch Telescope Log

Observer: CALKINS

PI: Mink, All, Kirshner

Spectrograph: FAST

Grating: 3006

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Date: 2/22/99

| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
|--------|----------------|-------|--------|--------|-----|----------------------|
| 111 | comp | | | ↑ | | |
| 112 | G2002 | 13 40 | 28 55 | 12 78F | 17m | |
| 113 | comp | | | ↑ | | |
| 114 | G143X | 14 11 | 28 51 | 20 78F | 20m | |
| 115 | comp | | | ↑ | | |
| 116 | MRK421 | 11 04 | 28 12 | 15 6 | 4m | |
| 117 | comp | | | ↑ | | |
| 118 | NS227 | 10 23 | 19 51 | 15 6 | 3m | |
| 119 | comp | | | ↑ | | |
| 120 | N4051 | 12 03 | 44 31 | 15 6 | 2m | |
| 121 | comp | | | ↑ | | |
| 122 | N4151 | 12 10 | 39 24 | 15 6 | 20s | |
| 123 | comp | | | ↑ | | |
| 124 | SBS1425-2606 | 14 26 | 60 26 | 15 6 | 12m | |
| 125 | comp | | | ↑ | | |
| 126 | N4258 | 12 18 | 47 18 | 15 6 | 2m | |
| 127 | comp | | | ↑ | | |
| 128 | MRK279 | 13 52 | 69 18 | 15 6 | 3m | |
| 129 | comp | | | ↑ | | |
| 130 | NS548 | 14 18 | 25 08 | 21 6 | 3m | |
| 131 | comp | | | ↑ | | |
| 132 | SN1999E | 13 17 | -18 33 | 16 2 | 15m | PA = 11°, gal "east" |
| 133 | comp | | | ↑ | | |
| 134 | awm3-56 | 14 26 | 26 12 | 10 78F | 17m | Tilt - 672.0 |
| 135 | comp | | | ↑ | | |
| 136 | 970614.19.619 | 14 54 | 18 30 | 10 78F | 15m | |
| 137 | comp | | | ↑ | | |
| 138 | 327.009355 | 15 03 | 26 54 | 10 78F | 7m | |
| 139 | comp | | | ↑ | | |
| 140 | 970615.144.133 | 15 17 | 17 58 | 10 78F | 20m | |

60 inch Telescope Log
 Observer: CALKINS
 PI: Mink
 Spectrograph: FAST
 Grating: 300L
 Date: 2/22/99
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| Number | Object | R.A. | Dec. | L/R | Exp | Comments |
|---------|----------------|-------|-------|------|-----|----------|
| 141 | comp | | | ↑ | | |
| 142 | 9702015.146909 | 15 19 | 18 38 | ↑78f | 20m | |
| 145 | comp | | | ↑ | | |
| 146 | N4486A | 12 30 | 12 28 | ↑78f | 5m | |
| 147 | comp | | | ↑ | | |
| 148 | N4486B | 12 30 | 12 28 | ↑78f | 5m | |
| 149 | comp | | | ↑ | | |
| 150 | N4486B | 12 30 | 12 28 | ↑78f | 5m | |
| 151 | comp | | | ↑ | | |
| 152 | N4486B | 12 30 | 12 28 | ↑78f | 5m | |
| 153 | comp | | | ↑ | | |
| 154 | N4486B | 12 30 | 12 28 | ↑78f | 5m | |
| 155 | comp | | | ↑ | | |
| 156 | N4486B | 12 30 | 12 28 | ↑78f | 5m | |
| 157 | comp | | | ↑ | | |
| 158 | 328.124317 | 15 53 | 32 18 | ↑78f | 7m | |
| 159 | comp | | | ↑ | | |
| 160 | 15550p0116 | 15 57 | 01 06 | ↑78f | 12m | |
| 161 | comp | | | ↑ | | |
| 162 | 0302019 | 17 18 | 56 59 | ↑78f | 20m | |
| 163 | comp | | | ↑ | | |
| 164-173 | FLAT | | | | 8s | Tilt=672 |
| 174-183 | B.I.N | | | | 0s | |
| 184-193 | FLAT | | | | 6s | |
| 194-203 | B.I.N | | | | 0s | |
| 204-213 | FLAT | | | | 12s | |
| 214-223 | DARK | | | | 15m | |