

60 inch Telescope Log
 Observer: CALKINS
 PI: Kochanek et al
 Spectrograph: FAST
 Grating: 600L
 Date: 11/5/99
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	
11-20	BIAS				0s	
21-30	FLAT				35s	scattered cirrus
31	BDP284211	21 51	28 51	88	30s	@. sunset
32	comp			↑		
33,34	M32	00 42	40 51	88	3m	PA = -10
35	comp			↑		
36	HD175743	18 56	18 07	88	N/A	Guide rate = 3"/s
37	comp			↑		
38,39	MF3244	23 46	12 03	88	7.5m	PA = -13
40	comp			↑		
41,42	MF2071	00 25	31 20	88	7.5	PA = -2°
43	comp			↓		
44	comp			↓		
45-47	MF2084	00 33	39 32	88	15m	PA = -43°, object to west
48	comp			↑		
49	comp			↓		
50-52	MF2115	00 47	23 09	88	10m	PA = -65
53	comp			↑		
54	comp			↓		
55-57	MF2163	01 08	33 13	88	10m	PA = -49
58	comp			↑		
59	HD1546	00 38	29 18	88	N/A	3"/s
60	comp			↑		
61	comp			↓		
62-64	MF2102	00 42	18 49	88	15m	PA = -37°
65	comp			↑		
66,67	MF2169	1 09	14 21	88	7.5m	PA = -24
68	comp			↑		
69,70	MF2278	1 51	19 06	88	7.5m	PA = 85°

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Number	Object	R.A.	Dec	L/R	Exp	Comments
71	comp			↑		
72	HD 7318	01 13	24 35	"88	N/A	3 1/2
73	comp			↑		
74, 75	NGC 1023	2 40	39 02	"88	3m	PA = 86°
76	comp			↑		
77	Feige 25	2 38	5 27	"56	2m	PA = 90°
78	comp			↑		
79	comp			↓		
80-82	MF2491	2 49	52 43	"88	15m	PA = 59°
83	comp			↑		
84	comp			↓		
85-87	MF2509	2 47	16 06	"88	20m	PA = 78°
88	comp			↑		
89, 90	MF2272	1 50	32 31	"88	7.5m	PA = -50°
91	comp			↑		
92	comp			↓		
93-95	MF2160	1 07	40 14	"88	15m	PA = 90°
96	comp			↑		
97, 98	NGC 1700	4 56	-4 51	"88	3m	PA = 90°
99	comp			↑		
100	ADL 7372	4 20	27 21	"88	N/A	3 1/2
101	comp			↑		
102, 103	MF2616	7 03	49 24	"88	7.5m	PA = 45°
104	comp			↑		
105	comp			↓		
106-108	MF2827	8 05	25 56	"88	10m	PA = 85°
109	comp			↑		
110-111	MF2764	7 48	24 19	"88	7.5m	PA = 64°
112	comp			↑		
113	comp			↓		

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
114-116	MF2682	7 08	50 07	#88	20m	PA = 1°, clouds moving in
117	comp			↑		
118	comp			↓		
119, 120	MF2950	8 54	17 26	#88	10m	PA = -45, abort final exposure due to clouds
121	comp			↑		
122, 123	M81	9 56	69 06	#88	4m	thru clouds
124	comp			↑		
125	Hiltner 600	6 45	2 08	#56	1m	PA = 90°
126	comp			↑		
127	HD34559	5 19	22 06	#88	N/A	3 1/3
128	comp			↑		
129-132	sky			#57	2s	clouds @ sunrise
134	comp			↑		
145-149	BIAS				0s	
145-154	FLAT				35s	
155-164	DARK				15m	