60 inch Telescope Log
Observer: CALKINS
PI: Ali, Huchra, Geller, Garcia

Spectrograph: FAST
Grating: 300l
Date: 12/22/98

Page: 6801

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1, 2	Dark				15m	
3-12	IRAS				0s	
13-22	FLAT				6s	
23-32	IRAS				0s	
33-42	FLAT				10s	
43-47	sky			#57 ↑	1s	
48	comp					
49	Feige 110	23 20	-05 09	#56 ↑	1m	cirrus @ sunset
50	comp					
51	N7331	22 37	34 25	#57 ↑	4m	
52	comp					
53	MRK335	00 06	20 12	#6 ↑	3m	
54	comp					
55	2M0237+05.4p	02 36	59 40	#68 ↑	20m	binby 2 STAR
56	comp					
57	2M0240+52.3p	02 40	56 23	#68 ↑	20m	binby 2, PA = 75° STAR
58	comp					
59	2M0241+45.7p	02 41	55 34	#68 ↑	20m	binby 2, PA = 110.0° STAR
60	comp					
61	2M0240+16.0p	02 40	58 54	#68 ↑	20m	
62	comp					
63	051447p0824	05 14	08 24	#64 ↑	20m	
64	comp					
65	051451p0841	05 14	08 41	#64 ↑	15m	companion to the ca
66	comp					
67	051453p0615	05 14	06 14	#64 ↑	15m	
68	comp					
69	051504p0217	05 15	02 16	#64 ↑	15m	
70	comp					
71-73	CICam	4 19	55 58	#107	2,20,90	

60 inch Telescope Log
Observer: Galliano
PI: Geller, Huchra

Spectrograph: FAST
Grating: 300l
Date: 12/22/98

Page: 6801

Number	Object	R.A.	Dec.	L/R	Exp	Comments
74	comp			↑		
75	051543p0600	5 15	5 59	#64	10m	
76	comp			↑		
77	051534p0652	5 15	6 49	#64	12m	underexposed but Q
78	comp			↑		
79	051538p0852	5 15	8 52	#64	10m	companion to the west
80	comp			↑		
81	051540p0507	5 15	5 07	#64	6m	
82	comp			↑		
83	051543p0545	5 15	5 45	#64	15m	PA = 75°
84	comp			↑		
85	051547p0646	5 15	6 47	#64	12m	PA = 75°
86	comp			↑		
87	051550p0612	5 15	6 12	#64	20m	
88	comp			↑		
89	051550p0845	5 15	8 45	#64	20m	object to east
90	comp			↑		
91	2M0746.41	7 46	18 44	#68	3m	
92	comp			↑		
93	2M0711338	7 13	12 16	#68	4m	superimposed star to
94	comp			↑		the west (indistinguishable
95	2M0705.17	7 05	22 48	#68	3m	in spectrum
96	comp			↑		
97	2M0733.09	7 33	17 37	#68	3m	
98	comp			↑		
99	2M0753.54	7 53	13 08	#68	4m	companion to east
100	comp			↑		
101	2M0706.13	7 06	23 21	#68	3m	
102	comp			↑		
103	2M0710.26	7 10	13 44	#68	4m	

60 inch Telescope Log
Observer: CALKINS
PI: Huchra

Spectrograph: FAST
Grating: 300x
Date: 12/22/98

Page: 6803

Number	Object	R.A.	Dec.	I/R	Exp	Comments
104	comp			↑		
105	2M0722835	7 28	14 22	#68	5m	
106	comp			↓		
107	2M0720930	7 04	18 38	#68	5m	
108	comp			↑		
109	2M0723902	7 39	26 07	#68	7m	
110	comp			↑		
111	2M0721914	7 19	14 03	#68	3.5m	
112	comp			↑		
113	2M0723957	7 39	12 14	#68	3m	
114	comp			↑		
115	2M0721404	7 14	5 47	#68	6m	object to the west
116	comp			↑		
117	2M0725937	7 59	13 26	#68	3m	
118	comp			↑		
119	2M0720559	7 05	15 43	#68	2.5m	
120	comp			↑		
121	2M0725112	7 51	22 25	#68	6m	
122	comp			↑		
123	2M0723338	7 33	24 43	#68	4m	
124	comp			↑		
125	2M0720756	7 07	13 12	#68	4.5m	star to the west
126	comp			↑		
127	2M0723109	7 31	14 01	#68	3m	
128	comp			↑		
129	2M0724538	7 45	18 07	#68	2.5m	
130	comp			↑		
131	2M0723114	7 31	14 49	#68	3.5m	
132	comp			↑		
133	2M0724808	7 48	22 50	#68	3.5m	

60 inch Telescope Log
Observer: Calkins
PI: Huchra, All

Spectrograph: FAST
Grating: 300L
Date: 12/22/98
Page: 6804

Number	Object	R.A.	Dec.	L/R	Exp	Comments
134	comp			↑		
135	2M0713366	7 15	17 17	#68	12m	
136	comp			↑		
137	2M0710736	7 07	24 32	#68	3m	
138	comp			↑		
139	2M0713422	7 34	26 52	#68	4.5m	
140	comp			↑		
141	2M0713723	7 37	17 47	#68	12m	star to the east
142	comp			↑		
143	2M0711058	7 10	15 39	#68	5m	
144	comp			↑		
145	2M0714930	7 49	20 22	#68	7m	
146	comp			↑		
147	2M0710257	7 03	27 54	#68	8m	
148	comp			↑		
149	2M0714533	7 45	18 48	#68	12m	
150	comp			↑		
151	2M0713547	7 35	15 07	#68	20m	PA ϕ = 110° M
152	comp			↑		clouds returned
153	N4151	12 10	39 23	#6	45s	(will redo)
154	comp			↑		
155	N4258	12 18	47 17	#6	2m	clouds obscure
156	comp			↑		all but the
157	MRK 179	13 52	69 17	#6	5m	brightest!!
158	comp			↑		
159	N4244	12 23	36 08	#56	3m	
160	comp					
161-170	BIAS				0s	
171-180	FLAT				60s	
181-190	DARK				15m	