

60 inch Telescope Log				Spectrograph: <u>FAST</u>		
Observer: <u>CALYONS</u> <u>Kraemer</u>				Grating: <u>300L</u>		Page: <u>2/17</u>
PI: <u>All, Kenyon Garcia, Hiltner</u>				Date: <u>3/11/99</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	
11-20	BIAS				0s	
21-30	PLAT				6s	
31-40	BIAS				0s	
41-50	FLAT				12s	
51-55	sky			#57	2s	
56	comp			↑		
57	Hiltner 600	6 45	2 07	#56	2m	
58	comp			↑		
59	HDS 2971	7 00	27 08	#57	5s	poor seeing
60	comp			↑		
61	BC Gem	6 03	27 41	#100	6m	
62	comp			↑		
63-65	CICam	4 19	55 59	#107	2,209s	
66	comp			↑		
67	MS1417	6 40	9 45	#82	20m	bright object west
68	comp			↑		
69	MS1520	6 41	9 45	#82	20m	in/out of clouds
70	comp			↑		
						searching for holes wait out snow & clouds
71	N3227	10 23	19 51	#6	3m	terrible seeing!
72	comp			↑		
73	Feige 34	10 39	43 06	#56	90s	PA = 17°
74	comp			↑		
75	sm1999aa	8 27	21 29	#2	202m	PA = 62°
76	comp			↑		
77	sm1999aa	12 01	14 06	#2	15m	PA = 35°
78	comp			↑		

NOISE + GAIN CALC. LOW  
 NOISE ~ 2.7 in 7.8  
 GAIN ~ 1.1

60 inch Telescope Log			Spectrograph: <u>FAST</u>			
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PI: <u>Falco</u>			Date: <u>3/11/99</u>			
Number	Object	R. A.	Dec.	L/R	Exp	Comments
79	10581m0252	11 00	-2 53	F60	6m	PA = 59°
80	comp			↑		
81	N5492_14.0	11 00	10 31	F60	5m	
82	comp			↑		
83	10589m0156	11 01	-2 14	F60	20m	
84	comp			↑		
85	10597p1030	11 02	10 15	F60	3m	
86	comp			↑		
87	10599p1700	11 02	16 43	F60	20m	
88	comp			↑		
89	N3523_13.8	11 02	75 05	F60	10m	
90	comp			↑		
91	11010p5958	11 04	59 40	F60	4m	
92	comp			↑		
93	11010m0114	11 05	-1 30	F60	3m	
94	comp			↑		
95	11027m0031	11 05	-00 47	F60	4m	
96	comp			↑		
97	11035p0335	11 06	3 19	F60	4m	
98	comp			↑		
99	11036p0335	11 06	3 19	F60	4m	
100	comp			↑		
101	11037p6708	11 06	66 49	F60	4m	
102	comp			↑		
103	11086p5649	11 11	56 29	F60	5m	redo?
104	comp			↑		
105	11068m0035	11 09	-00 57	F60	8m	
106	comp			↑		
107	11072m0221	11 09	-3 40	F60	7m	Sy
108	comp			↑		

## 60 inch Telescope Log

Observer: CALKINS

Huchra

Spectrograph: FASTGrating: 3000LPage: 7119PI: Fico, Ali, Koranyi, KirshnerDate: 3/1/99

Number	Object	R. A.	Dec.	L/R	Exp	Comments
109	11085m0318	11 10	-3 34	#60	10m	
110	comp			↑		
111	MRK421	11 04	38 12	#6	4m	
112	comp			↑		
113	M4051	12 03	44 31	#6	2m	
114	comp			↑		
115	mkw12-i.053	14 01	10 29	#35	20m	
116	comp			↑		
117	mkw12-i.054	14 06	10 13	#35	15m	
118	comp			↑		
119	mkw12-i.055	13 59	10 21	#35	20m	
120	comp			↑		
121	mkw12-i.056	13 59	9 41	#35	15m	
122	comp			↑		
123	mkw12-i.057	14 06	9 34	#35	20m	
124	comp			↑		
125	mkw12-i.058	14 02	10 31	#35	15m	
126	comp			↑		
127	MRK279	12 52	69 17	#6	3m	
128	comp			↑		
129	NS548	14 17	25 07	#6	3m	
130	comp			↑		
131	sn1999ac	16 07	7 57	#2	17m	PA=4°
132	comp			↑		
133	2M133733-9p	15 37	21 13	#68	4m	star west
134	comp			↑		
135	2M170254-7p	17 02	22 55	#68	4m	
136	comp			↑		
137	NS866	15 06	55 45	#57	1m	
138	comp			↑		

