

60 inch Telescope Log			Spectrograph: <u>FAST</u>			
Observer: <u>P Berlin & P Bernby</u>			Grating: <u>3002</u>		Page: <u>4801</u>	
PI: <u>Wilkes & Huchra</u>			Date: <u>7/17/96</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS			0	0s	bimby 4
11-20	FLAT			0	6s	bimby 4
21-30	BIAS			0	0s	bimby 2
31-40	FLAT			0	12s	bimby 2
41-45	sky	zenith		0	2s	
46	COMP			↑	5s	
47-49	HD 142091	15:51	+35:39	0	1s	
50	COMP			↑		a few scattered clouds
51-53	HD 14477	15:48	+18:07	0	1s	
54	COMP			↑		
55-57	HD 140159	15:41	+19:40	0	2s	
58	COMP			↑		
59-61	HD 11004	15:46	+07:21	0	1s	
62	COMP			↑		
63-65	HD 140775	15:45	+05:26	0	2s	
66	COMP			↑		
67-68	HD 332642	15:50	+39:05	0	45s	
69	COMP			↑		
70	N5548	14:15	+25:22	6	2m	
71	COMP			↑		
72	MRK 279	13:51	+67:33	6	2m	
73	COMP			↑		
74	N4151	12:08	+39:41	6	30s	
75	COMP			↑		
76	11037 p 6708	11:03	+67:08	1	5m	em
77	COMP			↑		
78	11041 p 6522 N	11:04	+65:22	1	5m	em
79	11041 p 6522 S	11:04	+65:22	1	6m	
80	COMP			↑		
81	N4563	12:58	+27:35	0	5m	

60 inch Telescope Log

Observer: PBSpectrograph: FASTGrating: 3002Page: 4802PI: Geller & Grogan & KenyonDate: 7/17/86

Number	Object	R.A.	Dec.	L/R	Exp	Comments
82	COMP			↑		
83	322.047676	13:08	+28:50	3	15m	redo from 6/15/86 em
84	COMP			↑		
85	322.014806	13:07	+30:52	3	11m	
86	COMP			↑		
87	322.092549	13:03	+32:12	3	15m	em of course
88	COMP			↑		
89	322.089945	13:10	+32:01	3	12m	
90	COMP			↑		
91	323.051812	13:43	+29:46	3	15m	redo from 6/7/86
92	COMP			↑		
93	323.058820	13:30	+30:22	3	12m	
94	COMP			↑		
95	323.066059	13:46	+30:56	3	12m	em
96	COMP			↑		
97	2154FZ	15:03	+21:52	42	12m	
98	COMP			↑		
99	2154F1	15:04	+21:56	42	10m	
100	COMP			↑		
101	4145 F1	15:52	+41:45	42	12m	em
102	COMP			↑		
103-104	BOp 332642	15:50	+33:05	0	45s	a few clouds in the
105	COMP			↑		far south
106-107	TCr B	15:59	+29:55	12	5s, 20s	
108	COMP			↑		
109-111	Hen 1341	17:08	-17:26	12	30s, 10s, 90s	
112	COMP			↑		
113-114	M1m 21	17:34	-19:09	12	5s, 5m	
115	COMP			↑		
116-118	RTSer	17:39	-11:56	12	30s, 5m, 10s	

60 inch Telescope Log				Spectrograph: <u>FAS</u>		Page: <u>4803</u>	
Observer: <u>PB-PB</u>		Grating: <u>3002</u>		Date: <u>7/17/86</u>			
PI: <u>Kempner & Geller</u>							
Number	Object	R.A.	Dec.	L/R	Exp	Comments	
119	COMP			↑		thin clouds	
120-122	Uiso	17:42	-15:24	12	10s, 6m, 20s		
123	COMP			↑			
124-125	V2416 _{Syn}	17:57	-21:41	12	20s, 5m		
126	COMP			↑			
127-128	AS270	18:05	-20:20	12	20s, 5m		
129	COMP			↑			
130, 131	RSoph	17:50	-06:42	12	S ₂ , 1m		
132	COMP			↑			
133, 134	AS289	18:12	-11:40	12	S ₂ , 1m		
135	COMP			↑			
136, 137	AS296	18:15	-00:16:53	12	S ₂ , 1m		
138	COMP			↑			
139, 140	VVHer	18:14	+20:59	12	10s, 5m		
141	COMP			↑			
142, 143	V443Her	18:22	+23:27	12	3s, 1m		
144	COMP			↑			
145, 146	AS338	19:03	+16:26	12	S ₂ , 2m		
147	COMP			↑			
148-150	BFC ₂₂	19:23	+29:40	12	S ₂ , 2s		
151	COMP			↑			
152-154	CHC ₂₂	19:24	+50:14	12	1s, S ₂ , 20s		
155	COMP			↑			
156-158	HD192281	20:10	+40:07	0	S ₂		
159	COMP			↑		F star +	
160	NEP270	17:48	+63:37	1	15m	binny 2 • faint comp to SE	
161	COMP			↑		emission 2 px 914	
162	S19.03768	21:36	+10:27	3	15m		
163	COMP			↑			
164	S18.157107	21:48	+13:42	3	10m		

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Observer: PB + PBPI: Geller & WilkesSpectrograph: FASTGrating: 3002Date: 7/17/96Page: 4804

Number	Object	R.A.	Dec.	L/R	Exp	Comments
165	COMP			3		
166	S18.162607	21:41	+13:51	3	15m	star on slit (to E) Ha
167	COMP			↑		
168	S18.178492	21:42	+14:19	3	15m	em
169	COMP			↑		thin clouds all over
170	S18.197223	21:48	+14:51	3	9m	
171	COMP			↑		
172	S19.209476	21:34	+15:11	3	15m	
173	COMP			↑		
174	S18.209881	21:34	+15:11	3	20m	
175	COMP			↑		
176	S18.213502	21:46	+15:18	3	15m	
177	COMP			↑		
178	S18.219312	21:51	+15:28	3	10m	
179	COMP			↑		
180	S18.220476	21:45	+15:49	3	12m	
181	COMP			↑		
182	S23.060576	23:53	+12:54	3	10m	
183	COMP			↑		
184	S23.064931	23:47	+13:09	3	10m	solid cloud in S+E
185	COMP			↑		
186	S23.069223	23:51	+13:22	3	9m	stopped by clouds red
187	COMP			↑		
188	N746A	23:03	+06:56	6	5m	
189	COMP			↑		
190	MARK335	00:03	+19:55	6	5m	
191	COMP			↑		
192	3C390.3	18:45	+79:43	6	3m	
193	COMP			↑		
194-196	CGCG	19:50	+75:41	12	2m, 20s, 2s	

