

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>5642</u>
Observer: <u>P. Berlind</u>				Grating: <u>3WR, 3" slit</u>		
PI: <u>Huchra</u>				Date: <u>10/3/97</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BTAS			0	0s	
11-20	FLAT			0	6s	lots of local clouds
21-25	sky			0	5s	dissolving @ sunset
26	COMP			↑	12s	
27-29	H1819251	20:10	+40:11	56	8	
30	COMP			↑		
31-33	C52eq	19:50	+35:41	12	2, 2, 2	
34	COMP			↑		
35	17304 p 6722	17:30	+67:22	43	2m	
36	COMP			↑		
37	17310 p 7122	17:31	+71:22	43	2m	em
38	COMP			↑		
39	17287 p 7045	17:28	+70:45	43	2m	
40	COMP			↑		
41	17280 p 6826	17:28	+68:26	43	2m	
42	COMP			↑		
43	17273 p 6009	17:27	+60:09	43	2m	
44	COMP			↑		
45	17284 p 6607	17:28	+60:07	43	4m	* to W em
46	COMP			↑		
47	17037 p 7157	17:03	+72:57	43	2m	
48	COMP			↑		a few stray clouds
49	17113 p 6411	17:11	+69:41	43	3m	
50	COMP			↑		
51	17129 p 7239	17:12	+72:39	43	3m	
52	COMP			↑		
53	17153 p 7116 NE	17:15	+71:16	43	2m	NE SW
54	17153 p 7116 SW	17:15	+71:16	43	4m	
55	COMP			↑		
56	N6299	17:05	+62:29	43	2m	

DARK CORRECTED

60 inch Telescope Log

Observer: PB

PI: Huchra

Spectrograph: FAST

Grating: 3000

Date: 10/31/97

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
57	COMP			↑		thin clouds all over
58	N6303	17:05	+168:53	43	2m	
59	COMP			↑		
60	N6248	17:17	+169:28	43	4m	
61	COMP			↑		
62	16542p6522	16:54	+165:22	43	10m	em pit 2057, extended
63	COMP			↑		16525-52 also cosm2 &
64	16528p6433	16:52	+164:33	43	7m	* to W; nice em
65	COMP			↑		
66	17154p6125	17:15	+161:24	43	9m	Seemingly worse em
67	COMP			↑		
68	17179p6038 SW	17:17	+160:38	43	6m	↙ NE
69	17179p6038 NE	17:17	+160:38	43	3m	↘ SW
70	COMP			↑		
71	17192p6122	17:19	+161:22	43	8m	
72	COMP			↑		
73	17220p5955	17:22	+155:55	43	5m	
74	COMP			↑		
75	17220p6004	17:22	+160:04	43	6m	
76	COMP			↑		
77	17306p5932	17:30	+159:32	43	5m	
78	COMP			↑		
79	18276p7245	18:27	+172:45	43	5m	
80	COMP			↑		
81	18280p7248	18:28	+172:48	43	7m	
82	COMP			↑		
83	18405p7348	18:40	+173:48	43	7m	
84	COMP			↑		
85	18299p6751	18:29	+167:51	43	10m	* to E; em
86	COMP			↑		

60 inch Telescope Log

Observer: PB  
 PI: Huchra, Grogan, Geller

Spectrograph: FAST

Grating: 3000

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Date: 10/3/97

Number	Object	R. A.	Dec.	L/R	Exp	Comments
87	I 5060	21-02	+19-12	43	2m	4's E+W
88	WMP			↑		
89	20587p0208	20-58	+02-08	43	4m	
90	WMP			↑		
91	20587p0705	20-58	+07-05	43	2m	
92	WMP			↑		
93	21032p0730E2	21-02	+07-34	42	4m	bin by 2; sup to gal has Ha → blended star + gal
94	WMP			↑		
95	21067p0318E1	21-08	+03-18	42	90s	- star
96	WMP			↑		
97	21236p0514	21-23	+05-14	43	4m	em
98	WMP			↑		
99	21184p2603	21-18	+26-03	43	5m	
100	WMP			↑		
101	21264p3505	21-26	+35-05	43	6m	em!, LSB, next to bright star
102	WMP			↑		
103	21282p3528	21-28	+35-28	43	5m	
104	WMP			↑		
105	21364p3152	21-36	+31-52	43	2m	was S <sub>γ</sub>
106	WMP			↑		
107	579.001206	22-13	+03-51	55	46m	
108	WMP			↑		
109	579.008639	22-13	+03-54	55	5m	
110	WMP			↑		
111	579.017665	22-18	+04-17	55	6m	to to W em
112	WMP			↑		
113	579.018176	22-04	+04-19	55	6m	
114	WMP			↑		
115	579.023324	22-04	+04-31	55	7m	
116	WMP			↑		

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>5645</u>
Observer: <u>PB</u>				Grating: <u>JWR</u>		
PI: <u>Geller</u>				Date: <u>10/3/97</u>		
Number	Object	R. A.	Dec.	L/R	Exp	Comments
117	579.028905	22-00	+04:45	SS	10m	clouds in far South
118	COMP			↑		
119	579.020848	22-09	+04:50	SS	9m	
120	COMP			↑		
121	579.026982	22-14	+05:04	SS	8m	
122	COMP			↑		
123	579.054485	22-15	+05:45	SS	7m	
124	COMP			↑		
125	579.056867	22-10	+05:51	SS	8m	
126	COMP			↑		
127	579.054062	21-56	+05:54	SS	7m	
128	COMP			↑		
129	579.067249	22-11	+06:46	SS	5m	
130	COMP			↑		
131	Fergello	23-17	-05:26	SB	2m	
132	COMP			↑		
133	NG1109	23-03	+08:52	b	2m	
134	COMP			↑		
135	579.066689	22-12	+06:20	SS	6m	
136	COMP			↑		
137	579.071052	22-00	+06:26	SS	5m	em
138	COMP			↑		
139	579.071641	21-56	+06:28	SS	7m	
140	COMP			↑		
141	579.075737	21-56	+06:38	SS	4m	
142	COMP			↑		
143	579.073388	22-15	+06:32	SS	6m	
144	COMP			↑		
145	579.085110	22-11	+07:03	SS	8m	
146	COMP			↑		

60 inch Telescope Log

Observer: PB  
 PI: Geller et al

Spectrograph: FAST  
 Grating: 200  
 Date: 10/3/97

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
147	MRK335	00:03	+19:55	6	4m	
148	COMP			7		
149	225m280	00:41	+11:05	56	4m	
150	COMP			7		
151-152	AXPer	01:36	+54:45	12	4s, 75s	
153	COMP			7		
154-155	Zhd	23:33	+48:49	12	0.5, 10s	
156	COMP			7		
157	S24.006141	00:03	+04:19	55	5m	
158	COMP			7		
159	S24.009997	00:04	+04:28	55	4m	
160	COMP			7		
161	S24.010020	00:03	+04:28	55	5m	
162	COMP			7		
163	S24.012695	00:03	+04:44	55	4m	
164	COMP			7		
165	S24.013993	00:08	+01:52	55	5m	
166	COMP			7		
167	S24.014366	00:01	+04:54	55	8m	
168	COMP			7		
169	S24.016142	23:55	+05:04	55	10m	em
170	COMP			7		
171	S24.014451	00:14	+04:54	55	4m	
172	COMP			7		
173	S24.016172	00:14	+05:05	55	4m	
174	COMP			7		
175	S24.017749	00:14	+05:14	55	5m	
176	COMP			7		
177	S24.017934	00:02	+05:13	55	5m	
178	COMP			7		

60 inch Telescope Log

Observer: PB  
 PI: Geller

Spectrograph: FAST  
 Grating: 3WR  
 Date: 10/3/97

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
179	524.018498	00:06	+06:19	SS	4m	
180	COMP			↑		
181	524.023886	00:04	+06:50	SS	8m	em
182	COMP			↑		
183	524.025394	00:13	+05:59	SS	5m	
184	COMP			↑		
185	524.025498	00:02	+06:40	SS	6m	
186	COMP			↑		
187	524.027596	00:09	+06:12	SS	10m	extracted water signal gal on slit to W; both em
188	COMP			↑		
189	524.032807	00:18	+06:41	SS	4m	
190	COMP			↑		
191	524.037218	00:16	+07:06	SS	4m	
192	COMP			↑		
193	531.001790	03:05	+03:31	SS	5m	
194	COMP			↑		
195	531.001065	02:51	+03:31	SS	4m	em
196	COMP			↑		
197	531.004293	02:54	+03:46	SS	4m	
198	COMP			↑		
199	531.001350	02:55	+03:46	SS	4m	
200	COMP			↑		
201	531.004809	02:55	+03:48	SS	4m	NE comp
202	COMP			↑		
203	531.004945	02:50	+03:49	SS	3m	
204	COMP			↑		
205	531.012347	03:00	+04:26	SS	4m	
206	COMP			↑		
207	531.012325	03:07	+04:25	SS		
208	COMP			↑		

60 inch Telescope Log

Observer: PB  
 PI: Geller

Spectrograph: FBST  
 Grating: 300R  
 Date: 10/3/97

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
209	531.012779	03:07	+04:28	SS	3m	
210	COMP			↑		
211	531.018089	02:56	+04:58	SS	6m	
212	COMP			↑		
213	531.023322	02:57	+05:25	SS	4m	
214	COMP			↑		
215	531.026886	02:57	+05:40	SS	4m	
216	COMP			↑		
217	531.027671N	02:57	+05:47	SS	4m	
218	531.027631S	02:57	+05:46	SS	4m	
219	COMP			↑		
220	531.029512	02:57	+05:56	SS	4m	
221	COMP			↑		
222	531.029528	02:59	+05:56	SS	4m	
223	COMP			↑		
224	531.029912	02:59	+05:58	SS	3m	
225	531.029913	02:59	+05:58	SS	3m	
226	COMP			↑		
227	531.030024	02:59	+05:59	SS	4m	
228	COMP			↑		
229	531.030240	03:07	+05:59	SS	4m	
230	COMP			↑		
231	531.030811	02:57	+06:03	SS	4m	
232	COMP			↑		
233	531.032083	02:56	+06:05	SS	6m	em
234	COMP			↑		
235	531.032327	02:58	+06:10	SS	5m	
236	531.032682	02:56	+06:12	SS	5m	
237	COMP			↑		
238	531.034104	02:56	+06:19	SS	4m	

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>5649</u>
Observer: <u>PB</u>				Grating: <u>3WR</u>		
PI: <u>All</u>				Date: <u>10/3/97</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
239	COMP			↑		
240	531, 034424	02:55	+06:20	55	4m	
241	COMP			↑		
242	AKN120	05:13	-00:12	6	3m	
243	COMP			↑		
244-245	Hiltner 60	06:42	+02:11	56	30s	
246	COMP			↑		
247-248	DR Tau	04:17	+16:58	12	20s, 2m	→ 10s, 90s
249	COMP			↑		
250-251	DR Tau	04:33	+25:20	12	10s, 12s	good
252	COMP			↑		
253-254	DR Tau	04:27	+26:06	12	10s, 90s	good
255	COMP			↑		
256	NGC 6702	04:54	-04:56	57	2.5m	
257	COMP			↑		
258-260	HDS 2971	06:57	+27:13	57	4s	clear skies @ dawn
261	COMP			↑		
262-303	HD's, COMPS			57	5-2.5s	
304	COMP			↑		
305-314	BIAS			0	0s	
315-324	FLAT			0	6s	
325-334	BIAS			0	0s	bin by 2
335-344	FLAT			0	12s	bin by 2
345-348	DARKS			0	5m	bin by 4
349-358	DARK			0	7.5m	

0304. COM1 - has problem - NOT enough counts + there is continuum on blue end high residuals in  $\lambda$  solution

DO NOT TRUST VELOCITIES FOR 301-303

60 inch Telescope Log

Observer: P. Berlind

PI: Huchra

Spectrograph: FAST

Grating: 300L 3" slit

Date: 10/1/97

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-4	DARK			0	15m	bin by 1
5-14	BIAS			0	0s	
15-24	FLAT			0	6s	
25-34	BIAS			0	0s	bin by 2
35-44	FLAT			0	12s	bin by 2
45-49	SKY			57	2s	
50	COMP			↑	7s	clear skies!
51-53	HD192281	20:00	+14:00	56	5s	
54	COMP			↑		
55-56	LICING	19:50	+35:41	12	2s, 30s	
57	COMP			↑		
58-59	BDp404032	20:06	+40:06	56	60s	
60				↑		
61	A16488	17:49	+62:13	43	2m	
62	COMP			↑		
63	17355p6807	17:35	+68:07	43	2m	
64	COMP			↑		
65	17406p6829	17:40	+68:29	43	2m	
66	COMP			↑		
67	17422p6041 ED	17:22	+60:11	43	7m	2 gals both em
68	COMP			↑		
69	160059p202142	16:00	+20:21	25	10m	
70	COMP			↑		
71	160128p162437	16:01	+16:24	25	11m	
72	COMP			↑		
73	160123p171917	16:01	+17:19	25	10m	
74	COMP			↑		
75	160001p154052	16:00	+15:40	25	8m	
76	COMP			↑		
77	17223p62135	17:22	+62:13	43	5m	em

DARK CORRECTED

60 inch Telescope Log

Observer: PB  
 PI: Huchra

Spectrograph: FAST  
 Grating: 3WR  
 Date: 10/4/97

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
78	17223p6213N	17.22	+62.13	43	5m	poor seeing clear skies
79	COMP			↑		
80	17229p6358	17.22	+63.58	43	5m	hectre
81	COMP			↑		
82	17251p5940	17.25	+59.40	43	3m	
83	COMP			↑		
84	17252p7212	17.25	+72.12	43	5m	
85	COMP			↑		see #86 at bottom of page
88	17267p5942	17.26	+59.42	43	2m	
89	COMP			↑		
90	17269p7318	17.26	+73.18	43	4m	
91	COMP			↑		
92	N6395	17.27	+71.08	43	4m	
93	COMP			↑		
94	17312p5930	17.31	+59.30	43	5m	em
95	COMP			↑		
96	17316p5555	17.31	+55.55	43	3m	
97	COMP			↑		
98	17327p7153	17.32	+71.53	43	3m	
99	COMP			↑		
100	17329p6923	17.32	+69.23	43	5m	Wk em; * to E
101	COMP			↑		PK 2.92
102	18579p7209	18.57	+72.09	43	5m	
103	COMP			↑		
104	18590p6433	18.59	+64.33	43	3m	
105	COMP			↑		
106	19126p7017	19.12	+70.17	43	10m	
107	COMP			↑		
108	19150p7016	19.15	+70.16	43	8m	
109	COMP			↑		

#86	17257p6853	17.25	+68.53	43	4m	em!
87	COMP			↑		

60 inch Telescope Log

Observer: PB, Parviz, John R

PI: Huchra & Gronau & Geller

Spectrograph: FAST

Grating: W2

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Date: 10/4/97

Number	Object	R A	Dec	L/R	Exp	Comments
110	Cyg test				2m	Cygnus hop; do not reduce.
111	21325p0114	21:32	+01:14	43	5m	test for John Raymond
112	COMP			↑		
113	21342p0102W	21:34	+01:02	43	4m	
114	21342p0102E	21:34	+01:02	43	5m	
115	COMP			↑		
116	21505p0328	21:50	+03:28	47	10m	
117	COMP			↑		
118	21590p5120	21:59	+51:20	47	7m	
119	COMP			↑		
120	22476p1147F2	22:47	+11:47	42	7m	
121	COMP			↑		
122	22476p1147F3	22:47	+11:47	42	8m	
123	COMP			↑		
124	23080p0752F2	23:08	+07:46	42	7m	
125	COMP			↑		
126	23046p0828F1	23:04	+08:35	42	4m	
127	COMP			↑		
128	23080p0752F3	23:08	+07:59	42	5m	redo? when
129	COMP			↑		
130	N7448-sn.cand	23:02	+15	2	7m	2Mass cand; nope
131	COMP			↑		
132	579.105206	22:11	+07:58	55	6m	
133	COMP			↑		
134	579.100947	22:13	+07:46	55	5m	redone as file #142
135	COMP			↑		
136	579.113584	21:58	+08:22	55	6m	
137	COMP			↑		
138	579.110103	22:16	+08:12	55	7m	
139	COMP			↑		

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>5653</u>
Observer: <u>PB</u>				Grating: <u>300</u>		
PI: <u>Geller</u>				Date: <u>10/14/97</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
140	579.116492	22:10	+08:31	SS	6m	poor seeing
141	COMP			T		
142	579.100777	22:13	+07:46	SS	9m	* to E, redo from #134
143	COMP			T		still weak
144	579.116492	22:10	+08:31	SS	8m	
145	COMP			T		
146	524.029057	00:01	+06:20	SS	9m	
147	COMP			T		
148	524.035742	00:06	+06:58	SS	8m	
149	COMP			T		
150	524.041576	00:00	+07:32	SS	5m	
151	COMP			T		
152	524.043197	23:58	+07:44	SS	6m	
153	COMP			T		
154	524.044914	23:54	+07:53	SS	6m	
155	COMP			T		
156	524.040949	00:04	+08:06	SS	6m	
157	COMP			T		
158	524.049445	00:10	+08:09	SS	5m	
159	COMP			T		
160	524.048128	00:04	+08:13	SS	10m	
161	COMP			T		
162	524.048351	00:05	+08:15	SS	10m	
163	COMP			T		
164	524.048382	23:59	+08:15	SS	6m	
165	COMP			T		
166-167	ZAND	23:55	+18:49	IZ	0.5, 0.5	
168	COMP			T		
169-170	AXPer	01:36	+54:15	IZ	4s, 7s	
171	COMP			T		

60 inch Telescope Log

Observer: PB  
 PI: Geller

Spectrograph: FAST  
 Grating: 30R  
 Date: 10/4/99

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Number	Object	R.A.	Dec	I/R	Exp	Comments
172	S31.02475	02:48	+06:31	SS	6m	
173	COMP			↑		
174	S31.034786	02:58	+06:22	SS	6m	en
175	COMP			↑		
176	S31.034717	02:53	+06:32	SS	5m	
177	COMP			↑		
178	S31.039315	02:52	+06:45	SS	4m	
179	COMP			↑		
180	S31.059582	03:03	+06:45	SS	5m	
181	COMP			↑		
182	S31.045786	02:57	+07:16	SS	8m	
183	COMP			↑		
184	S31.045818	02:59	+07:18	SS	10m	
185	COMP			↑		
186	S31.051015	02:51	+07:46	SS	4m	
187	COMP			↑		
188	S31.051451	02:43	+07:49	SS	4m	
189	COMP			↑		
190	S31.052210	02:56	+07:59	SS	4m	
191	COMP			↑		
192	S31.057517	02:48	+08:24	SS	6m	
193	COMP			↑		
194	S31.060777	02:55	+08:39	SS	4m	
195	COMP			↑		
196	S31.066788	02:51	+09:16	SS	5m	
197	COMP			↑		
198	S31.068594	02:53	+09:25	SS	9m	en
199	COMP			↑		
200	S17 blss.01	02:45	-00:44	SS	4m	
201	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5655</u>	
Observer: <u>PB</u>			Grating: <u>302</u>			
PI: <u>Mahdavi</u>			Date: <u>10/4/97</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
202	sigb155.02	02:45	-0:32	S9	8m	em
203	WMP			↑		
204	sigb155.03	02:45	-0:14	S9	12m	wk em prx 218 looks bad enough to be from 2mach
205	WMP			↑		
206	sigb155.04	02:45	-0:26	S9	4m	
207	WMP			↑		
208	sigb155.05	02:45	-0:36	S9	8m	em
209	WMP			↑		
210	sigb155.06	02:46	+0:01	S9	10m	
211	WMP			↑		
212	sigb155.08	02:46	-0:39	S9	7m	
213	WMP			↑		
214	sigb155.09	02:46	-0:39	S9	5m	
215	WMP			↑		
216	sigb155.11	02:46	-0:29	S9	6m	
217	WMP			↑		
218	sigb155.12	02:46	-0:43	S9	5m	
219	WMP			↑		
220	ZW7960F	03:19	+4:30	60	2m	em+; wow sign!
221	WMP			↑		
222	sigal-205	03:34	+3:42	60	2m	
223	sigal-206	03:34	+3:35	60	3m	↑'s to W, em
224	WMP			↑		
225-6	DRTan	04:47	+16:58	12	90s, 10s	ok
227	WMP			↑		
228-29	DLTan	04:33	-12:20	12	120, 10s	
230	WMP			↑		
231-232	DGTan	04:27	-12	12	90s, 10s	
233	WMP			↑		
234	NGC 752	04:54	-04:36	12	2m	



60 inch Telescope Log

Observer: P. Berlind

PI: Huchra

Spectrograph: FAST

Grating: 300, 3517

Date: 10/6/97

Page: 5657

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-8	DARK			0	15m	clear skies!
9-18	B7HS			0	0s	
19-28	FLAT			0	6s	
29-38	B7HS			0	0s	
39-48	FLAT			0	12s	
49-53	sky	Zenith		57	5s	
54	COMP			↑		
55-57	HDF2251	20:10	+110	56	5s	
58	COMP			↑		
59-61	CFEugy	19:50	+35	12s	2x20s/s	
62	COMP					
63-64	BDp404032				1m	
65	COMP					
66,68	17412p77403	17:41	+74:03	43	2m3m	x2; reduce #68
67	COMP			↑		
69	17435p6846	17:43	+68:46	43	3m	
70	COMP			↑		
71	17455p6447	17:45	+64:47	43	90s	
72	COMP			↑		
73	17467p6119	17:46	+61:19	43	2m	
74	COMP			↑		
75	17469p5926	17:46	+59:26	43	4m	
76	COMP			↑		
77	17486p6141	17:48	+61:41	43	3m	
78	COMP			↑		
79	16034p152530	16:03	+15:25	25	10m	
80	COMP			↑		
81	160310p161320	16:03	+16:13	25	12m	speedy
82	COMP			↑		
83	160304p181147	16:03	+18:11	25	10m	

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>5658</u>
Observer: <u>PB</u>				Grating: <u>302</u>		
PI: <u>Huchra</u>				Date: <u>10/5/97</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
84	COMP			↑		
85	N6348	17:18	+41:39	43	21m	
86	COMP			↑		
87	I1264E	17:33	+43:38	43	21m	
88	I1264W	17:33	+43:38	43	21m	
89	COMP			↑		
90	17338p7048	17:33	+70:48	43	3m	
91	COMP			↑		
92	17342p7052	17:34	+70:52	43	3m	
93	COMP			↑		
94	17346p7300	17:34	+73:00	43	3m	
95	COMP			↑		
96	17344p6230EW	17:34	+62:30	43	6m	bank 2; close EW pair
97	COMP			↑		em both camps; same z
98	17348p6326	17:34	+63:26	43	5m	em pit 2103
99	COMP			↑		
100	17366p6228	17:36	+62:28	43	10m	last em
101	COMP			↑		
102	17373p7057	17:37	+70:57	43	5m	em
103	COMP			↑		
104	17385p7000	17:38	+70:00	43	4m	
105	COMP			↑		
106	17386p6803	17:38	+68:03	43	3m	
107	COMP			↑		
108	17391p9119	17:39	+89:19	43	3m	
109	COMP			↑		
110	N6461	17:39	+73:32	43	5m	
111	COMP			↑		
112	17404p6237	17:40	+62:37	43	5m	
113	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5659</u>	
Observer: <u>PB</u>			Grating: <u>300L</u>			
PI: <u>And:</u>			Date: <u>10/5/97</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
114	MRK 509	20:41	+10:54	6	3m	
115	COMP			↑		
116	sig b 9.17	22:13	+13:47	S9	3m	
117	COMP			↑		
118	sig b 9.18	22:13	+13:48	S9	3m	
119	COMP			↑		
120	sig b 9.19	22:13	+12:48	S9	7m	
121	COMP			↑		
122	sig b 9.20	22:14	+13:29	S9	2m	
123	COMP			↑		
124	sig 9.21	22:14	+13:16	S9	7m	
125	COMP			↑		
126	sig b 9.22	22:14	+13:52	S9	9m	
127	COMP			↑		
128	sig b 23	22:14	+13:57	S9	2m	
129	COMP			↑		
130	sig b. 24	22:14	+14:39	S9	4m	
131	COMP			↑		
132	sig b. 9.25	22:14	+13:42	S9	10m	
133	COMP			↑		
134	sig b. 9.26	22:14	+13:18	S9	2m	
135	COMP			↑		
136	sig b. 9.27	22:14	+13:04	S9	4m	
137	COMP			↑		
138	sig b. 09.28	22:14	+13:46	S9	4m	
139	COMP			↑		
140	sig b 09.02	22:12	+13:57	S9	3m	} row 78+79 ok - <del>ok</del> } but by 2 supts ← forced velocity to. } Wk em pix 219A Hk to. } ensure
141	COMP			↑		
142	sig b 9.29	22:14	+13:52	S9	3m	
143	COMP			↑		

21 Jul

60 inch Telescope Log

Observer: PB

PI: Andy Wilkes

Spectrograph: FAST

Grating: 302

Date: 10/5/97

Page: 560

Number	Object	R. A.	Dec.	L/R	Exp	Comments
144	Srg b 009.30	22:14	+13:50	S9	90s	photometric!
145	Srg b 009.31	22:14	+13:50	S9	2m	
146	COMP			↑		
147	Srg b. 009.32	22:14	+13:42	S9	3m	
148	COMP			↑		
149	Srg b. 009.33	22:14	+13:45	S9	3m	
150	COMP			↑		
151	Srg b. 009.34	22:15	+12:45	S9	4m	
152	COMP			↑		
153	Srg b. 009.35	22:15	+13:51	S9	4m <sup>†</sup>	to low
154	COMP			↑		
155	Srg b. 009.36	22:15	+13:51	S9	5m	
156	COMP			↑		
157	Srg b. 009.37	22:15	+13:56	S9	5m	
158	COMP			↑		
159	Srg b. 009.38	22:15	+14:19	S9	6m	wk
160	COMP			↑		
161	Srg b. 009.39	22:15	+14:04	S9	8m	
162	Srg b. 009.40	22:15	+14:07	S9	2m	
163	COMP			↑		
164	Srg b .41	22:16	+13:25	S9	5m	
165	COMP			↑		
166	Srg b. 009.42	22:16	+13:32	S9	5m	
167	COMP			↑		
168	Srg b. 009.44	22:17	+14:29	S9	7m	em
169	COMP			↑		
170	0026p129	00:29	+13:16	66	13m	2" slit ; PA=19
171	COMP			↑		
172	0026p129	00:29	+13:16	66	4m	5" slit ; PA=19
173	COMP			↑		air - 1.05

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>5661</u>		
Observer: <u>PB</u>		Grating: <u>30R</u>		Date: <u>10/5/97</u>		
PI: <u>Wilkes &amp; Geller</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
174	PG0205 p134	02:05	+13:22	56	6m	slit=5", PA=30
175	COMP			↑		
176	0052 p251	00:54	+25:25	66	20m	slit=2", PA=27
177	COMP			↑		
178	0052 p251	00:54	+25:25	66	5m	slit=5", PA=55
179	COMP			↑		
180	0157 p001	01:59	+00:23	66	5m	5" slit; PA=1
181	COMP			↑		
182	0157 p001	01:59	+00:23	66	15m	2" slit PA=4
183	COMP			↑		
184	PG0216 p032	02:16	+03:13	66	7m	5" slit PA=6
185	COMP			↑		
186	S24.049392	23:58	+08:15	55	5m	3" slit; PA=90
187	COMP			↑		photometric
188	S24.049567	00:03	+08:18	55	5m	
189	COMP			↑		
190	S24.049567	00:07	+08:20	55	5m	
191	COMP			↑		
192	S24.049382	00:06	+08:21	55	5m	also gal to E photom
193	COMP			↑		extracted G also # 193 now
194	S24.0495125	23:58	+08:24	55	4m	
195	COMP			↑		
196	S24.050337	23:59	+08:26	55	5m	
197	COMP			↑		
198	S24.049763	00:04	+08:23	55	6m	* to E
199	COMP			↑		
200	S24.050120	00:06	+08:25	55	5m	
201	COMP			↑		
202	S24.052051	23:57	+08:26	55	4m	
203	COMP			↑		

60 inch Telescope Log		Spectrograph: <u>FAST</u>				
Observer: <u>PB</u>		Grating: <u>300</u>		Page: <u>5662</u>		
PI: <u>Geller/And:</u>		Date: <u>10/5/97</u>				
Number	Object	R.A.	Dec.	L/R	Exp	Comments
204	S24.052463	00:05	+08:39	SS	6m	
205	COMP			↑		
206	S24.052784	23:56	+08:41	SS	6m	
207	COMP			↑		
208	S24.053306	00:02	+08:44	SS	5m	
209	COMP			↑		
210	S24.053638	00:18	+08:45	SS	6m	
211	COMP			↑		
212-3	AXPER	01:36	+54:15	12	3, 60s	
214	COMP			↑		
215	Srgb155.13	02:46	-00:34	S9	4m	
216	Srgb155.14	02:46	-00:33	S9	4m	gave it a 9, but it's not very good. ST.
217	COMP			↑		
218	Srgb155.15	02:47	-00:35	S9	4m	
219	Srgb155.16	02:47	-00:29	S9	4m	
220	COMP			↑		
221	Srgb155.17	02:47	-00:26	S9	5m	
222	Srgb155.19	02:47	-00:23	S9	4m	
223	COMP			↑		
224	Srgb155.18	02:47	-01:02	S9	6m	
225	Srgb155.20	02:47	-00:44	S9	6m	roquer cloud!
226	COMP			↑		
227	Srgb155.21	02:47	+00:03	S9	5m	em
228	Srgb155.24	02:47	+00:45	S9	7m	em
229	COMP			↑		
230	Srgb155.22	02:47	-00:17	S9	2m	
231	Srgb155.23	02:47	-00:16	S9	4m	
232	COMP			↑		
233	Srgb155.25	02:48	-00:45	S9	5m	
234	Srgb155.26	02:48	-01:34	S9	5m	

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5663</u>	
Observer: <u>PB</u>			Grating: <u>30L</u>			
PI: <u>All</u>			Date: <u>10/5/97</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
235	COMP			↑		
236	sig6155.29	02:48	-00:16	59	2m	a few clouds
237	sig6155.30	02:48	-00:06	59	5m	
238	COMP			↑		
239	sig6155.31	02:48	-00:46	59	5m	
240	COMP			↑		
241-247	DETau	04:33	+25:20	12	1 1/2, 2m	RT system crashed
248	COMP			↑		restart; cycleFIFO
249-250	DR Tau	04:47	+16:38	12	10s 2m	
251	COMP			↑		
252-3	DGTau	04:27	+26:06	12	10s, 7m	
254	COMP			↑		
255-6	Hiltner60	06:42	+02:11	56	45s	mostly clear @ dawn
257	COMP			↑		
258-259	NGC 1710	04:54	-04:56	59	2m	
260	COMP			↑		
261-263	HDS 2971	06:57	+07:13	59	4s	
264	COMP			↑		
265-274	BIAS			0	0s	
275-284	FLAT			0	6s	
285-294	BIAS			0	0s	bin by 2
295-304	FLAT			0	12s	bin by 2
305-314	FLAT2			66	9s	
315-324	FLAT5			66	7s	
325-334	DARK			0	15m	

FILES 244 and 245 do not exist.

\* Start of FAST run

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5093</u>	
Observer: <u>MADER</u>			Grating: <u>300L</u>		Date: <u>10/23/97</u>	
PI: <u>KENYON, MAHDAVI, GROGIN</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-4	DARK	-	-	-	900S	BIN X 4
5-14	BIAS	-	-	-	-	
15-24	FLAT	-	-	-	60	
25-27	SKY	-	-	-	2	PERFECT COMP SORRY
28-29	Z And	23:33:40	48:49:03	12	0.5/10	CLOUDS TO WEST
30	COMP			↑		
31	srqb009.48	22:18:19	13:53:12	59	300	THIN CLOUDS TO EAST
32	COMP			↑		
33	srqb016.01	22:53:41	25:51:01	59	<del>600</del>	
34	COMP			↑		
35	srqb016.12	22:57:25	26:06:43	59	720	
36	COMP			↑		
37	srqb016.10	22:57:21	26:04:36	59	480	
38	COMP			↑		
39	srqb016.09	22:57:63	26:01:22	59	600	POSITION: ANGLE = 50°
40	COMP			↑		"
41-42	AX Per	01:36:28	54:14:45	12	4/75	PA = 90°
43	COMP			↑		
						CLOUDS
44	srqb062.20	00:15:22	30:45:14	59	600	
45	COMP			↑		
46	Z3252p1818f1	23:27:52	18:28:19	42	720	PA = 21°
47	COMP			↑		"
48	PG-0205p134	02:08:01	13:36:23	56	120	PA = 90°
49	COMP			↑		
50	srqb062.13	00:14:13	28:53:06	59	300	
51	COMP			↑		
52	srqb062.10	00:13:56	30:53:00	59	300	
53	COMP			↑		

60 inch Telescope Log

Observer: MADERPI: MUMFRA, KENYONSpectrograph: FASTGrating: 300LPage: 5694Date: 10/23/97

Number	Object	R. A.	Dec.	L/R	Exp	Comments
54	PSC14273	02:53:06	26:31:15	43	480	SOME CLOUDS
55	COMP			↑		
56	PSC14332A	02:53:25	16:55:48	43	480	
57	COMP			↑		
58	PSC14332B	02:53:25	16:55:48	43	720	
59	COMP			↑		
60	225m280	00:44:32	41:21:58	57	300	VELOCITY TEMPLATE
61	COMP			↑		
62	PSC14753	02:57:46	20:30:03	43	900	
63	COMP			↑		
64	PSC14902	02:59:24	15:43:54	43	300	EMISSION
65	COMP			↑		
66	PSC15037	03:06:51	16:01:39	43	600	EMISSION
67	COMP			↑		
68,69	DL Tau	04:33:37	25:21:23	12	10/120	
70	COMP			↑		
71-72	DL Tau	04:47:05	16:58:51	12	10/90	
73	COMP			↑		
74-75	DL Tau	04:27:05	26:06:16	12	10/90	
76	COMP			↑		
77-78	H214	04:40:59	10:59:52	56	120	
79	COMP			↑		
80-81	GM1B2B	05:01:32	52:45:52	56	30	
82	COMP			↑		
83	APSO13	03:47:22	29:31:01	43	420	
84	COMP			↑		
85	APSO15	03:28:33	29:17:24	43	900	
86	COMP			↑		
87	APSO16	03:33:08	29:16:55	43	900	
88	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5695</u>	
Observer: <u>MADER</u>			Grating: <u>300L</u>			
PI: <u>MAHDAVI, HUKHUA</u>			Date: <u>10/23/97</u>			
Number	Object	R. A.	Dec.	L/R	Exp	Comments
89	srjb155.32	02:48:50	-00:31:08	59	300	
90	COMP			↑		
91	srjb155.38	02:49:27	-00:30:06	59	420	
92	COMP			↑		
93	srjb155.37	02:49:26	-00:52:00	59	300	
94	COMP			↑		
95	srjb155.34	02:49:31	-00:34:15	59	480	
96	COMP			↑		
97	srjb155.42	02:49:38	-00:32:48	59	480	
98	COMP			↑		
99	srjb155.41	02:49:38	-00:03:21	59	300	
100	COMP			↑		
101	C0439p30	04:39:50	38:44:09	43	480	
102	COMP			↑		
103	C0510p20	05:10:37	26:24:56	43	300	
104	COMP			↑		
105	C0512p19	05:12:42	19:15:51	43	480	
106	COMP			↑		
107	srjb155.69	02:54:31	-01:30:47	59	480	PA=80° TO KEEP STAR OUT OF SLIT
108	COMP			↑		"
109	srjb155.66	02:53:26	-01:30:45	59	480	PA=90°
110	COMP			↑		
111	srjb155.67	02:53:29	-00:13:21	59	600	
112	COMP			↑		
113	C0533p31	05:33:24	21:49:06	43	300	* image doesn't look like a star
114	COMP			↑		
115	C0524p17	05:24:08	17:16:13	43	300	
116	COMP			↑		
117	C0535p15A	05:35:44	15:05:49	43	900	@ line = 40
118	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5696</u>	
Observer: <u>MADER</u>			Grating: <u>300L</u>		Date: <u>10/23/97</u>	
PI: <u>HUMMA</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
119	C0535p15B	05:35:46	15:05:49	43	720	BRIGHTER OBJECT IS STAR
120	COMP			↑		
121	C0536p36	05:36:29	30:18:28	43	480	superposed star ????
122	COMP			↑		
123	C0544p17	05:44:10	17:32:47	43	420	EMISSION unusual spectrum
124	COMP			↑		
125	C0555p10	05:55:51	10:17:51	43	480	BRIGHT ONE
126	COMP			↑		
127	C0726p06	07:26:26	06:07:08	43	420	
128	COMP			↑		
129	C0717p06	07:17:13	06:36:07	43	300	
130	COMP			↑		
131	C0712p05	07:12:27	05:53:30	43	300	
132	COMP			↑		
133	C0712p00	07:12:12	02:18:18	43	420	
134	COMP			↑		
135	C0711p00	07:11:09	00:39:47	43	480	
136	COMP			↑		
137	C0710p06	07:10:58	06:17:33	43	420	
138	COMP			↑		
139	C0709p07	07:09:33	07:19:30	43	300	SLIGHTLY FAINTER STAR @ R=20
140	COMP			↑		
141	C0703p09	07:03:27	09:31:33	43	480	@ R=40
142	COMP			↑		
143	C0659p06	06:59:31	06:27:28	43	480	
144	COMP			↑		
145-154	FLAT	-	-	-	6	
155-164	BIAS	-	-	-	-	

*stellar velocity*

60 inch Telescope Log				Spectrograph: <u>FAST</u>		
Observer: <u>MADER</u>				Grating: <u>300l, 3"</u>		Page: <u>5697</u>
PI: <u>KENYON, GRODS-IV, MAHDANS, HACHRA</u>				Date: <u>10/24/97</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS	-	-	-	-	BNX4
11-20	FLAT	-	-	-	6	
21-24	DARK	-	-	-	900	
25-26	AX Per	01:36:28	54:15:15	12	4/75	12:40 am
27	COMP			↑		
28-29	DL Tau	04:33:38	25:20:28	12	10/120	
30	COMP			↑		
31-32	DR Tau	04:47:05	16:58:32	12	10/90	
33	COMP			↑		
34-35	DE Tau	04:27:04	26:00:36	12	10/90	
36	COMP			↑		
37-38	H214	04:40:59	10:59:37	56	180	
39	COMP			↑		
40	01322p1150f1	01:32:20	11:55:46	42	300	
41	COMP			↑		
42	srjb155.63	02:52:52	-01:16:30	59	240	
43	COMP			↑		
44	srjb155.59	02:51:56	-00:50:12	59	240	
45	COMP			↑		
46	srjb155.56	02:51:35	-00:44:01	59	300	
47	COMP			↑		
48	srjb155.54	02:51:13	-00:50:43	59	480	
49	COMP			↑		
50	srjb155.46	02:50:08	-00:16:02	59	480	
51	COMP			↑		
52	PSC20180	03:50:33	17:01:50	43	480	
53	COMP			↑		
54	AP5023	03:44:18	28:56:36	43	300	
55	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>569B</u>	
Observer: <u>MADER</u>			Grating: <u>300L, 3"</u>		Date: <u>10/24/97</u>	
PI: <u>HUCHRA</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
56	APS 026	03:32:09	28:53:17	43	420	
57	COMP			↑		
58	APS 027	03:40:47	28:41:36	43	480	BRIGHTER ONE
59	COMP			↑		
60	C 0613p11	06:13:49	11:00:35	43	300	
61	COMP			↑		
62	C 0628p24	06:28:40	24:04:28	43	600	
63	COMP			↑		
64	C 0533p31	05:33:24	31:49:06	43	240	REDD FROM 10/23/97 } STAR IN
65	COMP			↑		STELLAR V??? AGAIN } FRONT?
66	C 0631p24	06:31:52	24:43:08	43	480	
67	COMP			↑		
68	C 0637p22	06:37:53	22:36:20	43	480	
69	COMP			↑		
70	0644p24	06:44:08	24:40:41	43	480	
71	COMP			↑		
72	C 0657p08	06:57:38	08:59:26	43	600	EMISSION
73	COMP			↑		
74	C 0701p16	07:01:57	16:22:59	43	600	EMISSION (p line = 40)
75	COMP			↑		
76	C 0659p06	06:59:31	06:27:28	43	300	
77	COMP			↑		
78	C 0659p00	06:59:51	00:01:42	43	180	SUPERPOSED STAR <i>up with 10/23/97</i>
79	COMP			↑		
80	C 0631p21	06:31:09	21:33:56	43	600	
81	COMP			↑		
82	C 0604p16	06:04:03	16:08:57	43	600	M STAR? WIND GETTING STRONG
83	COMP			↑		30+ GUSIS
84-85	AKK2pM783	07:20:37	14:54:02	57	30	TRAILED
86	COMP			↑		

*Looks like a star*



60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>5700</u>
Observer: <u>MADER</u>				Grating: <u>300 L, 3"</u>		
PI: <u>KENTON, WILKES, GELLER, MAHDANI</u>				Date: <u>10/25/97</u>		
Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-10	BIAS	-	-	-	-	BIN X 4
11-20	FLAT	-	-	-	6	
21-24	DARK	-	-	-	900	
25-27	SKY	-	-	-	2	WINDS HEAVY AGAIN (20-25)
28	COMP			↑		
29-30	CI Cyg	19:50:12	35:41:04	12	2/30	
31	COMP			↑		
32	3C390.3	19:45:37	79:49:07	6	600	
33	COMP			↑		
34	MKK 509	20:41:26	-10:54:18	6	180	
35	COMP			↑		
36	N7469	23:03:15	08:52:25	6	180	
37	COMP			↑		
38-39	Z And	23:52:40	48:49:06	12	05/10	
40	COMP			↑		
41-42	BDP 284211	21:48:59	28:57:48	56	60	
43	COMP			↑		
44	580.012068	22:23:48	04:11:17	55	600	
45	COMP			↑		
46	580.003855	22:40:35	03:47:33	55	600	PA = 15° HAL @ LINE = 40
47	COMP			↑		"
48	580.016085	22:25:07	04:22:13	55	600	PA = 90°
49	COMP			↑		
50	580.00946	22:17:44	13:19:09	59	600	
51	COMP			↑		
52	580.01608	22:56:51	26:50:33	59	720	
53	COMP			↑		
54	580.01606	22:56:31	26:48:21	59	600	
55	COMP			↑		

60 inch Telescope Log

Observer: MADLER

PI: MAHANI, GELBER, GROGIN

Spectrograph: FAST

Grating: 300L, 3"

Page: 5701

Date: 10/25/97

Number	Object	R. A.	Dec.	L/R	Exp	Comments
56	SRG 016.02	22:54:21	25:54:30	59	720	HEADER HAS PA=15 FOR 848-57 ACTUAL PA=90
57	COMP			↑		
58	SRG 016.04	22:57:38	26:46:58	59	180	STAR $\mu$ $\dagger$
59	COMP			↑		
60	SRG 016.16	22:57:46	26:11:15	59	480	
61	COMP			↑		
62	SRG 016.19	22:57:55	26:08:16	59	300	
63	COMP			↑		
64	SRG 016.20	22:57:56	26:08:58	59	300	PA=0°
65	COMP			↑		
66	SRG 016.21	22:57:58	26:08:58	59	240	PA=0°
67	COMP			↑		
68	SRG 016.18	22:57:52	26:09:41	59	420	PA=45°
69	COMP			↑		
70	SRG 016.22	22:57:59	26:07:52	59	420	PA=90°
71	COMP			↑		
72	SRG 016.17	22:57:46	26:14:04	59	600	
73	COMP			↑		
74	SRG 016.24	22:29:45	07:59:19	55	300	PA=0°
75	COMP			↑		
76	SRG 112230	22:39:32	08:36:44	55	600	PA=45°
77	COMP			↑		
78	SRG 115857	22:43:43	08:46:36	55	600	PA=90°
79	COMP			↑		
80	Z314Sp1431F1	23:43:57	14:36:32	42	300	
81	COMP			↑		
82	Z3121p1125F2	23:42:53	11:28:29	42	480	
83	COMP			↑		
84	SRG 115375	22:41:43	08:45:23	55	480	
85	COMP			↑		

60 inch Telescope Log

Observer: HADER

PI: GELLER, MAHDANI, WILKES, BENYON

Spectrograph: FAST

Grating: 300L, 3"

Page: 5702

Date: 10/25/97

Number	Object	R. A.	Dec.	L/R	Exp	Comments
86	SZ7.001813	01:12:55	03:38:18	55	480	
87	COMP			↑		
88	SZ7.007919	01:17:26	04:10:08	55	720	
89	COMP			↑		
90	SZ7.009461	01:17:59	04:19:13	55	600	
91	COMP			↑		
92	srjb119.01	01:51:40	05:05:46	59	300	
93	COMP			↑		
94	srjb119.02	01:51:01	05:42:40	59	300	
95	COMP			↑		
96	srjb119.06	01:51:51	06:17:40	59	300	
97	COMP			↑		
98	srjb119.11	01:52:26	05:06:29	59	300	
99	COMP			↑		
100	MRE 335	00103:45	19:55:27	6	180	
101	COMP			↑		
102-103	AX PDS	01:36:23	54:15:02	12	4/75	
104	COMP			↑		
105-106	DL TAU	04:33:39	25:20:39	12	10/120	
107	COMP			↑		
108-109	D6 TAU	04:27:05	26:06:16	12	10/90	
110	COMP			↑		
111-112	DR TAU	04:47:05	16:58:37	12	10/90	
113	COMP			↑		
114-115	G-19182B	05:01:32	52:45:52	56	60	
116	COMP			↑		
117	srjb119.05	01:51:43	05:24:40	59	720	
118	COMP			↑		
119	srjb119.16	01:53:46	05:00:51	59	900	
120	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5703</u>	
Observer: <u>MADER</u>			Grating: <u>300L, 3"</u>			
PI: <u>WILKES, MANDAVI, HUCHPA</u>			Date: <u>10/25/97</u>			
Number	Object	R. A.	Dec.	L/R	Exp	Comments
121	AKN 120	05:13:38	-00:12:15	6	180	⊙ LINE=40
122	COMP			↑		
123	N1700	04:54:28	-04:56:30	57	180	
124	COMP			↑		
125	srab 155.49	02:50:17	00:05:28	59	480	
126	COMP			↑		
127	srab 155.53	02:50:56	00:21:58	59	720	
128	COMP			↑		
129	srab 155.50	02:50:18	-00:21:20	59	900	
130	COMP			↑		
131	srab 155.60	02:52:19	-01:17:46	59	300	
132	COMP			↑		
133	PSC 14558	02:55:48	15:53:19	43	480	
134	COMP			↑		
135	PSC 15056	03:01:11	20:22:02	43	300	
136	COMP			↑		
137	PSC 14763	02:57:51	15:44:36	43	420	
138	COMP			↑		
139	PSC 15787	03:03:10	16:35:51	43	300	
140	COMP			↑		
141	PSC 15648	03:06:51	23:11:58	43	480	
142	COMP			↑		
143	PSC 19534	03:40:41	20:48:34	43	720	
144	COMP			↑		
145	PSC 21127	03:53:40	18:08:39	43	300	
146	COMP			↑		
147	PSC 21256	↑	↑	43	420	
148	COMP	03:54:49	14:35:17	↑		
149	PSC 21063	03:53:03	27:14:47	43	600	
150	COMP			↑		

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Comments
Observer: <u>MADER</u>				Grating: <u>300R, 3°</u>		
PI: <u>KUCHRA</u>				Date: <u>11/25/97</u>		
Number	Object	R.A.	Dec.	L/R	Exp	
151	PSC 21467	03:56:38	16:47:57	43	900	
152	COMP			↑		
153	PSC 21381	03:55:26	19:11:28	43	720	
154	COMP			↑		
155	PSC 17378 C	03:22:45	15:24:25	43	480	
156	COMP			↑		
157	PSC 17378 B	"	"	43	900	PA=0°
158	COMP			↑		
159	PSC 17378 A	"	"	43	900	FAINT!!! PA=90° H $\alpha$ @ 6850?
160	COMP			↑		
161	AP5054	03:34:36	27:22:41	43	480	
<del>162</del>	COMP			↑		
163	AP5075	03:51:48	28:09:47	43	300	
164	COMP			↑		
165	C0617p30	06:17:16	30:42:53	43	300	STELLAR *
166	COMP			↑		
167-176	FLAT	-	-	-	6	
177-186	BIAS	-	-	-	-	
187-190	DARK	-	-	-	900	

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>5705</u>
Observer: <u>MADER</u>				Grating: <u>300L 5"</u>		
PI: <u>KENTON, HUKHRA, MANDAVI</u>				Date: <u>10/26/97</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	Bias	-	-	-	-	BIN X4
11-20	FLAT	-	-	-	6	
21-24	DARK	-	-	-	900	
25-27	SKY	-	-	-	2	
28	COMP			↑		
29-30	HD192281	20:10:47	40:07:01	56	5	
31	COMP			↑		
32-33	CI Cug	19:50:12	35:41:04	12	2/30	
34	COMP			↑		
35	18153p6725	18:15:48	67:25:00	43	300	
36	COMP			↑		
37	18128p7050	18:12:48	70:50:00	43	300	
38	COMP			↑		
39	18152p6215	18:15:12	62:15:00	43	480	
40	COMP			↑		
41	18102p6402	18:10:12	64:02:00	43	300	BRIGHT STAR ALSO IN SCIT
42	COMP			↑		
43	18115p6812	18:11:30	68:42:00	43	480	
44	COMP			↑		
45	18048p6042	18:04:48	60:42:00	43	360	
46	COMP			↑		
47	srjb016.03	22:55:26	25:55:10	59	360	not long enough
48	COMP			↑		
49	srjb016.04	22:56:15	26:10:23	59	900	
50	COMP			↑		
51	srjb016.05	22:56:28	25:52:03	59	600	
52	COMP			↑		
53	srjb016.07	22:56:44	24:54:07	59	900	
54	COMP			↑		

60 inch Telescope Log  
 Observer: MADER  
 PI: MADONN, HELPER  
 Spectrograph: FAST  
 Grating: 300L, 3"  
 Date: 10/26/97  
 Page: 5706

Number	Object	R. A.	Dec.	L/R	Exp	Comments
55	strg 016.23	22:58:10.2	25:13:34	S9	600	
56	COMP			↑		
57	strg 016.24	22:58:13	25:13:12	S9	300	
58	COMP			↑		
59	strg 016.26	22:58:20	26:33:32	S9	600	
60	COMP			↑		
61	strg 016.25	22:58:18	25:46:14	S9	300	
62	COMP			↑		
63	strg 016.27	22:58:20	26:03:42	S9	300	
64	COMP			↑		
65	strg 016.28	22:58:26	26:38:17	S9	300	STAR PARTIALLY IN SLIT GALAXY IS BRIGHT ONE
66	COMP			↑		
67	strg 016.31	22:58:35	25:25:29	S9	900	
68	COMP			↑		
69	S80. 032671	22:32:17	03:44:20	S5	900	
70	COMP			↑		
71	S80. 033398	22:24:52	05:08:33	S5	900	
72	COMP			↑		
73	S80. 023777	22:28:50	04:42:40	S5	900	
74	COMP			↑		
75	S80. 030600	22:22:02	05:01:03	S5	720	
76	COMP			↑		
77	S80. 038507	22:24:16	05:21:39	S5	720	
78	COMP			↑		
79	S80. 040492	22:43:06	05:27:07	S5	900	PA = 45°
80	COMP			↑		
81	S80. 04580	22:29:45	05:41:15	S5	900	PA = -60°
82	COMP			↑		
83	S80. 053574	22:21:48	06:00:37	S5	900	PA = 90°
84	COMP			↑		

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>5707</u>
Observer: <u>MADER</u>				Grating: <u>300L, 3"</u>		
PI: <u>KENYON, MAHDANI, BROGIN</u>				Date: <u>10/26/97</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
85-86	z And	23:33:40	48:49:06	12	05/10	
87	COMP			↑		
88-89	Ax Per	01:36:23	54:15:02	12	4/75	
90	COMP			↑		
91-92	DL Tau	04:33:39	25:20:39	12	10/120	
93	COMP			↑		
94-95	D6 Tau	04:27:05	26:06:16	12	10/90	
96	COMP			↑		
97-98	DR Tau	04:47:05	16:58:37	12	10/90	
99	COMP			↑		
100	Feige 24	02:32:31	03:30:51	56	180	
101	COMP			↑		
102	225m 280	00:41:45	41:05:12	57	300	
103	COMP			↑		
104	srgb 119.08	01:52:07	05:24:14	59	480	
105	COMP			↑		
106	01161p1445f1	01:16:53	14:36:34	42	300	
107	COMP			↑		
108	01143p1245f1	01:13:47	12:43:53	42	300	
109	COMP			↑		
110	srgb 119.09	01:52:16	05:20:19	59	480	
111	COMP			↑		
112	srgb 119.12	01:52:47	06:03:18	59	300	
113	COMP			↑		
114	srgb 119.10	01:52:21	05:14:11	59	480	
115	COMP			↑		
116	srgb 119.14	01:52:57	05:33:42	59	420	
117	COMP			↑		
118	srgb 119.15	01:53:32	06:24:01	59	720	
119	COMP			↑		

60 inch Telescope Log

Observer: MADER

PI: GELLER, MAHDAVI, MUKHERA

Spectrograph: FAST

Grating: 300R, 3"

Page: 5708

Date: 10/26/97

Number	Object	R.A.	Dec.	L/R	Exp	Comments
120	SZ7.054609	01:11:02	08:34:51	SS	600	
121	COMP			↑		
122	SZ7.054787	01:15:16	08:35:48	SS	300	
123	COMP			↑		
124	SZ7.054053	01:20:19	08:30:45	SS	300	
125	COMP			↑		
126	SZ7.046782N	01:23:50	07:47:08	SS	300	
127	COMP			↑		
128	SZ7.046782S	01:23:51	07:47:01	SS	300	HEADER WRONG (HAS N) fixed SAME WITH FILENAME
129	COMP			↑		
130	srab155.70	02:54:50	01:22:00	S9	480	
131	COMP			↑		
132	srab155.65	02:53:26	00:13:57	S9	480	
133	COMP			↑		
134	srab155.63	02:54:07	00:16:03	S9	300	
135	COMP			↑		
136	srab155.61	02:52:24	01:17:16	S9	480	
137	COMP			↑		
138	AP5 017	03:34:16	29:15:20	43	420	
139	COMP			↑		
140	AP5019	03:29:59	28:59:07	43	900	BRIGHT STAR AT EDGE
141	COMP			↑		
142	AP5025	03:47:20	28:54:07	43	600	
143	COMP			↑		
144	AP5032	03:38:51	28:29:16	43	300	
145	COMP			↑		
146	AP5032	"	"	43	600	LONGER
147	COMP			↑		
148	AP5034	03:41:01	28:37:03	43	600	
149	COMP			↑		

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>5709</u>
Observer: <u>MADER</u>				Grating: <u>3000, 3"</u>		
PI: <u>HUCHRA</u>				Date: <u>10/26/97</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
150	AP5036	03:35:10	28:25:20	43	600	
153	COMP			↑		
154	AP5047	03:24:21	27:43:18	43	600	✓ ALSO BRIGHT STAR
155	COMP			↑		
156	AP5055	03:37:54	27:19:03	43	600	
157	COMP			↑		
158	AP5059	03:58:53	29:45:56	43	900	@ LINE = 40
159	COMP			↑		
160	AP5065	03:47:20	28:54:08	43	900	
161	COMP			↑		
162	AP5077	03:52:05	28:11:56	43	720	
163	COMP			↑		
164-173	FLAT	-	-	-	6	
174-183	BIAS	-	-	-	-	
184-197	DARK	-	-	-	900	

*FAX to Susan Takazé pg 1 of 5*

60 inch Telescope log

Observer: P. Berline

PI: Huchra

Spectrograph: FAST

Grating: 300L, 3" slit

Date: 10/25/97

Page: 5710

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-10	BIAS				0s	
11-20	FLAT				6s	
21-30	BIAS				0s	bmbg 2
31-40	FLAT				12s	bmbg 2
41-5	sky	zenith		B	2s	
46	comp			r	6s	lots of clouds.
47-49	H1D17249			57	2s	
50	comp			r		
51-53	H1D182989			57	4s	
54	comp			r		
55-57	H1D181469			57	2s	
58	comp			r		
59-61	H1D188119			57	2s	
62	comp			r		
63-65	cellery	19:50	+55:41	B	24, 20, 36	
66	comp			r		
67-69	H1D192281	20:10	+40	56	4s	
70	comp			r		
71	N6251	16:52	+56:32	B	2m	
72	comp			r		
73	17430p6943	17:43	+66:43	B	4m	
74	comp			r		
75	17418p6653	17:41	+66:53	B	9m	He pr 2000 LBS [SIZE]
76	comp			r		
77	17448p6634 N	17:44	+66:34	B	4m	
78	17448p6634 E	17:44	+66:34	B	4m	
79	comp			r		
80	17452p5922	17:45	+59:22	B	10m	
81	comp			r		clouds
82	N6464	17:45	+60:55	B	6m	stopped short by clouds; w/comp

OK

60 inch Telescope Log

Observer: PB

PI: Geller

Spectrograph: FAST

Grating: SWR

Page: 5711

Date: 10/27/97

Number	Object	R. A.	Dec.	L/R	Exp	Comments
83	COMP			r		close ~ 2 hrs
84	2Amd	23:33	+48:49	B	4, 10s	close duets clouds
86	COMP			r		opened 11/15
87	S27.01833	01:08	+04:31	D	5m	
88	COMP			r		
89	S27.012308	01:20	+04:24	B	5m	+ to E
90	COMP			r		
91	S27.014161	01:07	+04:44	B	5m	
92	COMP			r		
93	S27.014589	01:06	+04:49	B	6m	
94	COMP			r		
95	S27.015575	01:13	+04:54	B	5m	
96	COMP			r		more clouds
97	S27.016735	01:08	+04:56	B	8m	e
98	COMP			r		
99	S27.017861	01:15	+05:04	B	6m	emitt
100	COMP			r		
101	S27.022540	01:22	+05:28	B	5m	
102	COMP			r		
103	S27.023602	01:10	+05:24	B	5m	
104	COMP			r		
105	S27.025584	01:08	+05:45	B	5m	
106	COMP			r		
107	S27.028232	01:18	+06:00	B	6m	
108	COMP			r		
109	S27.030296	01:06	+06:11	B	8m	
110	COMP			r		
111	S27.030770			B	6m	
112	COMP			r		
113	S27.032843	01:21	+06:26	B	5m	+ to E

60 inch Telescope Log

Observer: PB

PI: Geller

Spectrograph: FAST

Grating: 202

Date: 10/27/97

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
114	COMP			T		
115	S27.07297	01:06	+06:27	B	9m	em.
116	COMP			T		clearing!
117	S27.074311	01:04	+06:31	B	9m	
118	COMP			T		
119	S27.076180	01:22	+06:46	B	6m	
120	COMP			T		
121	S27.076250	01:06	+07:43	B	5m	* to E
122	COMP			T		
123	S27.057301	01:28	+06:51	B	5m	
124	COMP			T		
125	S27.011635	01:18	+07:57	B	6m	
126	COMP			T		
127	S27.019244	01:25	+08:02	B	5m	
128	COMP			T		
129	S27.052032	01:06	+06:17	B	9m	
130	COMP			T		
131	S27.056703	01:24	+06:44	B	5m	
132	COMP			T		
133	S27.057554	01:13	+06:51	B	5m	
134	COMP			T		
135	S27.06660	01:06	+06:41	B	6m	
136	COMP			T		
137	S27.06690	01:22	+06:16	B	6m	em., pec.
138	COMP			T		
139	S27.059947	01:24	+05:05	B	6m	
140	COMP			T		
141	S27.063173	01:30	+05:03	B	6m	
142	COMP			T		
M3-141	AXPer	01:16	+04:15	B	4,75s	

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>57B</u>	
Observer: <u>PBS</u>				Grating: <u>200R</u>			
PI: <u>Bartun &amp; Huchra</u>				Date: <u>10/27/97</u>			
Number	Object	R. A.	Dec.	L/R	Exp	Comments	
145	COMP			r			
146	soya 130	01:55	+36:15	60	5m		
147	soya 131	01:55	+36:16	60	4m		
148	COMP			r			
149	soya 134	01:56	+33:03	60	4m		
150	soya 136	01:56	+33:03	60	3m		
151	soya 137	01:56	+33:03	60	5m		
152	COMP			r			
153	soya 142	01:59	+19:57	60	2m		
154	soya 143	01:59	+19:59	60	2m		
155	COMP			r			
156	soya 150	02:03	+26:18	60	2m		
157	soya 151	02:03	+26:18	60	6m	em	
158	COMP			r			
159	ZW7460H	03:19:40.5	+41:32:55	60	3m	J2000; exact coords	
160	ZW7460C	03:19:21.1	+41:34:24	60	3m	exact coords	
161	COMP			r			
162	APSO10	03:51	+29:12	43	12m	em	
163	COMP			r			
164	APSO62	03:49	+29:21	43	10m	bin by 2; * to W	
165	COMP			r		gal @ row 80; * @ 74	
166	APSO63	03:59	+29:22	43	12m		
167	COMP			r			
168	APSO83	03:53	+27:44	43	8m		
169	COMP			r			
170	APSO84	03:51	+27:48	43	6m		
171	COMP			r			
172	APSO88	03:59	+27:26	43	12m		
173	COMP			r			
174	APSO91	03:29	+25:26	43	10m	em	

60 inch Telescope Log

Observer: PS

PI: Huchra

Spectrograph: FAST

Grating: 3WR

Date: 10/29/97

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
175	WMP			8		
176	APSO42	03:06	+21:01	43	6m	
177	WMP			7		
178	APSO45	03:23	+21:09	43	6m	
179	WMP			7		
180	APSO46	03:24	+21:10	43	6m	em
181	WMP			7		satellite flare - weird
182	APSO44	03:19	+21:06	43	12m	wk (to tv news guy) alerted me to this one
183	WMP			7		bright w/ 1st mag flare!
184-185	DE Tau	04:47	+16:58	12	90s, 10s	
186	WMP			7		
187-188	DE Tau	04:33	+25:20	12	2m, 10s	
189	WMP			7		
190-191	DE Tau	04:29	+26:06	12	90s, 10s	
192	WMP			7		
193-194	Hiltner 60	06:42	+02:11	56	30s	
195	WMP			7		increasing clouds @ dawn
196-200	HD 35814	05:27	-12:41	57	10s	
201	WMP			7		
202	Mrk 1072	03:55	+21:02	57	2m	
203	WMP			7		
204-206	HD 24534			57	10s	
207	WMP			7		
208-210	HD 25408			57	5s	
211	WMP			7		
212-214	HD 30711			57	2s	
215	WMP			7		
216-218	HD 30710			57	4s	
219	WMP			7		
220-229	BTAS			0	0s	
230-231	FLAT			0	6s	
240-245	DARK					15m - still some weak structure @ red end of ccd.

60 inch Telescope Log  
 Observer: P. Berlind  
 PI: All  
 Spectrograph: FAST  
 Grating: 300  
 Date: 10/28/97  
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Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-18	DARK			0	15m	(note: DARKS @ end are 20-min; bin by 2)
9-18	BIAS			0	0s	
19-28	FLAT			0	6s	
29-38	BIAS			0	0s	bin by 2
39-48	FLAT			0	12s	5:55 bin by 2
49-54	sky	zenith		57	4s	
55	COMP			↑		scattered clouds
56-58	HD 18694	19:23	+47:23	57	1s	
59	COMP			↑		
60-62	HD 189557	20:00	+41:59	57	1s	
63	COMP			↑		
64-66	HD 182572	19:24	+11:56	57	2s	
67	COMP			↑		
68-70	HD 189581	20:00	+01:21	57	2s	
71	COMP			↑		
72-74	HD 332955	19:48	+28:14	57	5s	
75	COMP			↑		
76-78	HD 227018	19:51	+55:18	57	5s	
79	COMP			↑		
80-82	HD 183589	19:31	+10:03	57	20s	
83	COMP			↑		
84	55433	19:11	+04:58	57	3m	
85	COMP			↑		
86-87	CICog	19:50	+35:11	12	1s, 30s	
88	COMP			↑		
89-91	HD 192281	20:10	+40:07	56	4s	
92	COMP			↑		
93-94	DDP 28424	21:18	+28:37	57	30s	
95	COMP			↑		
96	N7331	22:39	+54:09	57	3m	

Had to reidentify all bin by 2 comps by hand.  
 Do not understand why

60 inch Telescope Log

Observer: PB

PI: Huchra

Spectrograph: FAST

Grating: 30R

Date: 10/28/97

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
97	COMP			↑		
98	17473p6115	17:47	+61:41	43	5m	em
99	17473p6111N	17:47	+61:41	43	5m	em
100	COMP			↑		
101	17491p5938	17:49	+61:38	43	5m	em
102	COMP			↑		
103	17491p6023	17:49	+60:23	43	3m	
104	COMP			↑		
105	17494p6137	17:49	+61:36	43	11m	em
106	COMP			↑		
107	17494p6721	17:49	+67:21	43	6m	
108	COMP			↑		
109	17497p5949	17:49	+59:49	43	3m	
110	COMP			↑		
111	17504p7214	17:50	+72:14	43	3m	
112	COMP			↑		
113	17506p6250EW	17:50	+62:50	43	4m	wk but ok I hope binary 2; close E-W pair
114	17506p6250N	17:50	+62:50	43	4m	"
115	COMP			↑		"
116	17509p7150	17:50	+71:50	43	3m	
117	COMP			↑		
118	17542p7134	17:54	+71:34	43	12m	faint; em w/sky lines
119	COMP			↑		
120	17532p644	17:53	+64:11	43	5m	
121	COMP			↑		
122	17514p6228	17:51	+62:28	43	41m	
123	COMP			↑		
124	17515p6057	17:51	+60:57	43	6m	binary 2; close to E
125	COMP			↑		
126	18130 p 6330	18:13	+63:30	43	5m	* to E

60 inch Telescope Log

Observer: PB

PI: Greller

Spectrograph: FAST

Grating: 10/28/97

Date: 3W2, 3" slit

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
127	COMP			↑		
128	NGC 17	18:13	+61:18	43	10m	em; extended em
129	COMP			↑		
130	S80.008563	22:30	+04:01	55	10m	em
131	COMP			↑		
132	S80.01700	22:30	+05:44	55	9m	em
133	COMP			↑		
134	S80.05001	22:35	+06:07	55	8m	
135	COMP			↑		
136	S80.056258	22:43	+06:07	55	7m	
137	COMP			↑		
138	S80.064178	22:38	+06:28	55	8m	
139	COMP			↑		
140	S80.069877	22:38	+06:43	55	7m	
141	COMP			↑		
142	S80.071390	22:42	+07:07	55	5m	
143	COMP			↑		
144	S80.083215	22:40	+07:08	55	8m	
145	COMP			↑		cool views of saturn
146	S80.087361	22:20	+07:28	55	9m	+Jupiter through Jaki's 8" scope
147	COMP			↑		
148	S80.096331	22:24	+07:53	55	8m	
149	COMP			↑		
150	S80.105213	22:24	+08:17	55	6m	
151	COMP			↑		
152	S80.098587	22:41	+07:54	55	8m	
153	COMP			↑		
154	S80.106525	22:32	+08:21	55	8m	em!
155	COMP			↑		
156	S80.110020	22:28	+08:31	55	10m	

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5718</u>	
Observer: <u>PB</u>			Grating: <u>3020</u>			
PI: <u>Geller, Grogan, Andi</u>			Date: <u>10/28/97</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
157	COMP			↑		
158	S80.116886	22:24	+08:33	SS	9m	
159	COMP			↑		
160	S80.125468	22:43	+06:13	SS	6m	
161	COMP			↑		
162	S80.131255	22:40	+09:30	SS	8m	
163	COMP			↑		
164	Z3080 p075204	23:08	+07:58	42	6m	em
165	COMP			↑		
166	Z3080 p075205	23:08	+07:51	42	8m	
167	COMP			↑		
168	Z3102 p102841	23:10	+10:26	42	5m	
169	COMP			↑		
170	N7102F2	23:11	+02:10	42	5m	
171	COMP			↑		
172	Z3142 p083704	23:13	+08:38	42	3 <sup>+</sup> m	
173	COMP			↑		
174	N7601F1	23:16	+09:00	42	3m	
175	COMP			↑		
176	E1483FS	23:20	+11:10	42	9m	em
177	COMP			↑		
178	N7641C2	23:20	+11:44	42	5m	
179	COMP			↑		
180-1	ZAnd	23:33	+48:49	12	0.5, 10s	
182	COMP			↑		
183-4	AXPer	01:36	+54:15	12	3s, 70s	
185	COMP			↑		
186	Srg b062.01	00:11	+28:29	59	5m	
187	COMP			↑		
188	.02	00:12	+29:19	59	5m	fair integral ins lit told

60 inch Telescope Log				Spectrograph: <u>FAST</u>		
Observer: <u>PB</u>				Grating: <u>3WL</u>		Page: <u>5719</u>
PI: <u>Mahdavi</u>				Date: <u>10/28/97</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
189	COMP			↑		
190	src b062.03	00:12	+29:52	S9	4m	
191	COMP			↑		
192	.04	00:12	+29:52	S9	10m	em
193	COMP			↑		
194	.05	00:12	+30:06	S9	8m	em
195	COMP			↑		
196	.06	00:12	+29:22	S9	8m	em
197	COMP			↑		
198	.07	00:13	+30:11	S9	4m	
199	COMP			↑		
200	.08	00:13	+31:08	S9	2m	
201	COMP			↑		
202	.09	00:13	+28:45	S9	8m	em
203	COMP			↑		
204	.11	00:14	+24:25	S9	5m	em+
205	COMP			↑		
206	.14	00:14	+31:06	S9	5m	
207	COMP			↑		
208	.15	00:15	+28:52	S9	8m	
209	COMP			↑		
210	.18	00:15	+29:24	S9	3m	
211	COMP			↑		
212	.19	00:15	+29:39	S9	9m	
213	COMP			↑		
214	.21	00:15	+29:38	S9	9m	
215	COMP			↑		
216	.22	00:15	+29:43	S9	6m	
217	COMP			↑		
218	.24	00:15	+29:39	S9	2m	

60 inch Telescope Log

Observer: PB

PI: Andi Huchra & Kirchner

Spectrograph: FAST

Grating: 20R

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Date: 10/28/97

Number	Object	R.A.	Dec.	L/R	Exp	Comments
219	COMP			r		
220	src 6155-34	02:48	-01:58	S9	9m	em
221	COMP			r		
222	src 6155-35	02:49	-01:54	S9	12m	extend em pic 2125
223	COMP			r		
224	src 6155-36	02:49	-01:46	S9	10m	
225	COMP			r		
226	src 6155-40	02:49	-01:43	S9	8m	em
227	COMP			r		
228	src 6155-43	02:49	-01:31	S9	5m	em
229	COMP			r		
230	src 6155-44	02:49	-01:47	S9	5m	
231	COMP			r		
232	src 6155-45	02:49	-01:00	S9	7m	
233	COMP			r		
234	APSO 97	03:07	+00:55	43	10m	em
235	COMP			r		
236	APSO 98	03:10	+01:09	43	12m	
237	COMP			r		
238	APSO 99	03:08	+01:51	43	12m	
239	COMP			r		
240	APSO 71	03:59	+28:46	43	10m	
241	COMP			r		
242	APSO 67	03:57	+28:56	43	15m	
243	COMP			r		
244	APSO 66	03:28	+21:01	43	6m	
245	COMP			r		x 2
246, 248	SN. PG 21821. cand	07:47	+62:19	2	20m	band 2 mag = 18+ - faint
247, 249	COMP			r		also has em type II near max

60 inch Telescope Log

Observer: PB  
 PI: All

Spectrograph: FAST  
 Grating: 302  
 Date: 10/28/97

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
250	COSY7p23	05:47	+23:51	43	7m	young * + nebulosity <sup>and</sup> <sup>file</sup> <sup>photo</sup> sup *? → yes p → this is a planetary nebula!! ⇒ T-Tau star instead
251	COSY7p23.star	"	"	43	2m	
252	COMP			↑		
253-254	DC Tau	04:27	+26:06	12	90s, 10s	
255	COMP			↑		
257	DL Tau	04:33	+25:10	12	2m, 10s	
258	COMP			↑		
259-60	DR Tau	04:49	+16:56	12	90s, 10s	
261	COMP			↑		
262-63	Hiltner 60	06:42	+02	56	40s	
264	COMP			↑		
265-267	HDS0896	06:54	-23:55	57	2s	
268	COMP			↑		
269-271	HDS0836	06:53	-04:34	57	2s	
272	COMP			↑		
273-278	HDS0751	06:52	-05:11	57	2s	clear @ dawn!
279	COMP			↑		
280-283	HD49247	06:47	+10:40	57	2s	
284	COMP			↑		
285-287	HDS2971	06:57	+27:13	57	5s	
288	COMP			↑		
289-298	BIAS			0	0s	
299-308	FLAT			0	6s	
309-318	BIAS			0	0s	bin by 2
319-328	FLAT			0	12s	bin by 2
329-333	DARK			2	20m	bin by 2

## 60 inch Telescope Log

Observer: P. BerlinSpectrograph: FASTGrating: 300LPage: 5722PI: AllDate: 10/29/97

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-6	DARK			0	15m	
7-16	B7AS			0	0s	
17-26	FLAT			0	6s	
27-36	B7AS			0	0s	bin by 2
37-46	FLAT			0	12s	bin by 2
47-51	sky	zenith		57	2s	
52	COMP			↑	7s	clear skies!
53-55	HD 163710	17:56	+57:15	57	0.5s	
56	COMP			↑		
57-59	HD 16796	17:44	50:02	57	1s	
60	COMP			↑		
61-63	HD 165625	18:06	22:13	57	2s	
64	COMP			↑		
65-67	HD 163296	17:56	21:57	57	4s	
68	COMP			↑		
69-71	HD 164514	18:02	22:54	57	4s	
72	COMP			↑		
73-75	HD 164794	18:03	24:21	57	3s	
76	COMP			↑		
77-79	HD 165658	18:07	19:23	57	15s	
80	COMP			↑		
81-83	HD 192251	20:10	+40:	57	4s	
84	COMP			↑		
85-86	DDP 28424	21:30	+28	56	30s	
87	COMP			↑		
88-89	CIC 99	19:50	+35	12	6, 30s	
90	COMP			↑		
91	MRK 509	20:41	-10:54	6	3m	
92	COMP			↑		
93	3C 390.3	18:45	+74:43	6	10m	

60 inch Telescope Log

Observer: PB

PI: Huchra

Spectrograph: FAST

Grating: 3022

Date: 10/29/97

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
94	COMP			↑		
95	17546 p 6425	17.54	+64.25	43	4m	
96	COMP			↑		
97	17554 p 6633	17.55	+66.33	43	5m	
98	COMP			↑		
99	17557 p 6224	17.55	+62.24	43	4m	
100	COMP			↑		
101	17560 p 6439	17.56	+64.39	43	8m	
102	COMP			↑		
103	17564 p 6207	17.56	+62.07	43	4m	
104	COMP			↑		
105	17565 p 6235 E	17.56	+62.35	43	4m	SE
106	17565 p 6235 W	17.56	+62.35	43	4m	NW bright * to W off slit; but much scattered light
107	COMP			↑		
108	17587 p 6938 E	17.58	+69.38	43	5m	NE * to W
109	17587 p 6938 W	17.58	+69.38	43	4m	SW
110	COMP			↑		
111	17588 p 7040 N	17.58	+70.40	43	4m	N
112	17588 p 7040 S	17.58	+70.40	43	4m	S
113	COMP			↑		
114	17593 p 6246	17.59	+62.46	43	4m	em
115	COMP			↑		
116	18009 p 6301	18.00	+63.01	43	5m	em
117	COMP			↑		
118	18014 p 6521 E	18.01	+65.21	43	3m	E
119	18014 p 6521 W	18.01	+65.21	43	4m	W
120	COMP			↑		
121	18026 p 6911	18.02	+69.11	43	4m	
122	COMP			↑		
123	18080 p 7015	18.08	+70.15	43	5m	

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>5924</u>	
Observer: <u>PB</u>				Grating: <u>30R</u>			
PI: <u>Huchra &amp; Geller</u>				Date: <u>10/29/97</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments	
124	COMP			↑			
125	18055p 6819	18:05	+68:19	43	3m	em	
126	COMP			↑			
127	18040p 6013	18:04	+60:13	43	12m		
128	COMP			↑			
129	18106 p6917	18:10	+69:17	43	10m	wk em!	
130	COMP			↑			
131-132	ZAnd	23:53	+48:49	12	0.5s pds		
133	COMP			↑			
134	MRK 335	00:03	+19:55	6	3m		
135	COMP			↑			
136	N77469	23:03	+08:52	6	2m		
137	COMP			↑			
138	S2S. 009406	00:27	04:14	55	6m		
139	COMP			↑			
140	S2S. 017518	00:28	04:46	55	5m		
141	COMP			↑			
142	S2S. 019243	00:35	04:52	55	4m		
143	COMP			↑			
144	S2S. 023350	00:29	05:09	55	3m		
145	COMP			↑			
146	S2S. 025432	00:33	05:15	55	3m		
147	COMP			↑			
148	S2S. 027710	00:34	05:24	55	4m		
149	COMP			↑			
150	S2S. 027839	00:39	05:24	55	4m		
151	COMP			↑			
152	S2S. 027946	00:25	05:24	55	4m		
153	COMP			↑			
154	S2S. 029927	00:35	+05:32	55	3m		

60 inch Telescope Log

Observer: PB

PI: Geller

Spectrograph: FAST

Grating: 3002

Date: 10/29/97

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
155	COMP			↑		
156	SZS. 032781	00:34	05:43	SS	3m	
157	COMP			↑		
158	SZS. 039755	00:41	06:29	SS	7m	
159	COMP			↑		
160	SZS. 039900	00:40	06:10	SS	3m	
161	COMP			↑		
162	SZS. 113678	00:39	+06:24	SS	4m	
163	COMP			↑		
164	SZS. 014582N	00:20	+06:28	SS	4m	em
165	SZS. 014582S	00:20	+06:27	SS	4m	bright * to E
166	COMP			↑		
167	SZS. 015523	00:36	+06:34	SS	4m	
168	COMP			↑		
169	SZS. 018815	00:40	+06:43	SS	5m	
170	COMP			↑		
171	SZS. 019222	00:39	+06:45	SS	5m	
172	COMP			↑		
173	SZS. 019328	00:40	+06:45	SS	5m	
174	COMP			↑		
175	SZS. 019716	00:38	+06:46	SS	5m	
176	COMP			↑		
177	SZS. 050085	00:21	+06:48	SS	5m	this is correct; as are object names.
178	COMP			↑		
179	SZS. 054507C	00:38	07:07	SS	3m	
180	SZS. 054507N	00:38	07:03	SS	5m	
181	SZS. 054507S	00:38	07:03	SS	3m	
182	COMP			↑		
183	SZS. 054768	00:26	+07:05	SS	4m	note: chart and apcharts were switched for N and C
184	COMP			↑		

watch 179 - wont automatically go into ISR database

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>5926</u>
Observer: <u>PB</u>				Grating: <u>700L</u>		
PI: <u>Geller</u>				Date: <u>10/29/97</u>		
Number	Object	R. A.	Dec.	L/R	Exp	Comments
185	SZS. 055079	00:28	+07:07	SS	3m	
186	COMP			T		
187	SZS. 055519	00:26	+07:08	SS	4m	
188	COMP			T		
189	SZS. 056117	00:40	+07:10	SS	5m	
190	COMP			T		
191	SZS. 057164	00:43	+07:13	SS	5m	
192	COMP			T		
193	SZS. 058071	00:38	+07:17	SS	5m	
194	COMP			T		
195	SZS. 060005	00:22	+07:25	SS	5m	
196	COMP			T		
197	SZS. 060926	00:34	+07:26	SS	3m	
198	COMP			T		
199	SZS. 064176	00:29	+07:41	SS	6m	
200	COMP			T		
201	SZS. 071601	00:34	+08:11	SS	6m	
202	COMP			T		
203	SZS. 075120	00:34	+08:27	SS	5m	
204	COMP			T		
205	SZS. 077950	00:24	+08:39	SS	5m	
206	COMP			T		
207	SZS. 080168	00:35	+08:49	SS	4m	
208	COMP			T		
209	SZS. 083454	00:41	+09:04	SS	4m	wk
210	COMP			T		
211	SZS. 084652	00:19	+09:10	SS	6m	em pec
212	COMP			T		
213	SZS. 086250	00:21	+09:17	SS	7m	
214	COMP			T		

60 inch Telescope Log

Observer: PBPI: Grojan & MahdaviSpectrograph: FASTGrating: 3002Date: 10/29/97Page: 5727

Number	Object	R.A.	Dec.	L/R	Exp	Comments
215	SZS.069768	00:37	+09:33	SS	5m	
216	COMP			↑		
217	00175p0612EF3	00:17	+06:07	42	15m	
218	COMP			↑		
219	00175p0612EF4	00:17	+06:06	42	10m	
220	COMP			↑		
221	00203p063362	00:19	+06:29	42	12m	
222	COMP			↑		
223	01034p2517C1	01:03	+25:21	42	7m	
224	COMP			↑		
225	01143p124562	01:14	+12:33	42	7m	
226	COMP			↑		
227	01189p0522C1	01:18	+03:11	42	11m	
228	COMP			↑		
229	AX Per	01:36	+54:15	12	3.5, 20s	
231	COMP			↑		
232	AKn120	05:13	-00:12	6	3m	
233	COMP			↑		
234	Srgb 155.28	02:48	-00:59	59	15m	LSB ; em
235	COMP			↑		
236	Srgb. 155.47	02:50	-00:52	59	4m	em + com2
237	COMP			↑		
238	155.48	02:50	+00:05	59	8m	also gal halo to E beware already observed (high)
239	COMP			↑		
240	155.51	02:50	-01:19	59	8m	em
241	COMP			↑		
242	155.55	02:51	-00:19	59	6m	em ; high 2
243	COMP			↑		
244	155.58	02:51	-00:58	59	7m	wh
245	COMP			↑		

## 60 inch Telescope Log

Observer: PBPI: Mahdavi & HuehnerSpectrograph: FASTGrating: 300RPage: 5728Date: 10/29/97

Number	Object	R.A.	Dec.	L/R	Exp	Comments
246	Srg b 155.62	02:52	+00:40	59	10m	em
247	COMP			f		
248	155.64	02:53	-01:08	59	5m	windy - seeing worse
249	COMP			f		
250	155.71	02:55	-01:11	59	5m	em
251	COMP			f		
252	AP5101	03:13	+20:58	43	12m	
253	COMP			f		
254	AP5103	03:19	+20:59	43	10m	em
255	COMP			f		
256	AP5106	03:19	+20:54	43	15m	em
257	COMP			f		
258	AP5109	03:04	+20:46	43	10m	
259	COMP			f		
260	AP5110	03:04	+20:42	43	6m	
261	COMP			f		
262	AP5111	03:05	+20:35	43	10m	em
263	COMP			f		
264	AP5112	03:06	+20:36	43	6m	
265	COMP			f		
266	AP5113	03:06	+20:40	43	6m	
267	COMP			f		
268	CO458p34	04:58	+34:02	43	12m	a toughie
269	COMP			f		
270	CO505p17	05:05	+17:11	43	8m	em
271	COMP			f		
272	CO512p19	05:13	+19:40	43	7m	em
273	COMP			f		
274	SN.N3451	10:54	+27:14	2	10m	bin by 2
275	COMP			f		SN! type II near max

60 inch Telescope Log  
 Observer: PB  
 PI: All  
 Spectrograph: FAST  
 Grating: 300R  
 Date: 10/25/97  
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Number	Object	R. A.	Dec.	L/R	Exp	Comments
276	MRK421	11:01	+78:28	6	4m	
277	COMP			↑		
278-79	DG Tau	04:27	+76:06	12	90s, 10s	
280	COMP			↑		
281-82	DL Tau	04:33	+75:20	12	2m, 10s	
283	COMP			↑		
284-85	DR Tau	04:47	+18:58	12	90s, 10s	
286	COMP			↑		
287-288	Hiltner 600	06:42	+10:11	56	40s	
289	COMP			↑		
290-292	HD 247908	05:22	+33:21	57	4s	
293	COMP			↑		clear & dawn!
294-296	HD 35619	05:27	24:45	57	4s	
297	COMP			↑		
298-300	HD 37737	05:42	36:11	57	4s	
301	COMP			↑		
302-304	HD 35921	05:49	35:23	57	4s	
305	COMP			↑		
306-308	HD 36483	05:33	36:27	57	4s	
309	COMP			↑		
310-312	HD 31647	04:59	37:53	57	0.5s	
313	COMP			↑		
314-323	BIAS			0	0s	
324-333	FLAT			0	6s	
334-343	BIAS			0	0s	
344-353	FLAT			0	12s	
354-358	DARK					

~~324-333~~

60 inch Telescope Log

Spectrograph: FAST

Observer: P. Berlin

Grating: 300R

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PI: All

Date: 10/20/97

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-8	DARK			0	15m	
9-18	BIAS			0	0s	
19-28	FLAT			0	6s	
29-38	BIAS			0	0s	bimby 2
39-48	FLAT			0	12s	bimby 2
49-54	sky			57	2s	
55	COMP			↑	6s	clear skies
56-58	HD155622	19:29	+16:24	57	1s	
59	COMP			↑		windy
60-62	HD 180617	19:16	05:11	57	2s	
63	COMP			↑		
64-66	HD 179821	19:13	10:07	57	4s	
67	COMP			↑		
68-70	HD 139034	19:50	24:16	57	4s	
71	COMP			↑		
72-74	HD 341764	19:43	+23:47	57	4s	
75	COMP			↑		
76-78	HD 142281	20:10	+10	57	4s	
79	COMP			↑		
80-81	IC 1318	19:50	+35	57	1s, 30s	
82	COMP			↑		
83-84	BDp 28424	21:18	+28:37	56	30s	
85	COMP			↑		
86-87	ZAW	23:37	+118:49	12	0.5s, 10s	
88				↑		
89	N7371	22:34	+74:09	57	3m	
90	COMP			↑		
91	N6587	18:10	+15:10	43	31m	* + W
92	COMP			↑		
93	N6601	18:11	+16:26	43	21m	

60 inch Telescope Log

Observer: PB  
 PI: Huchra & Anderson

Spectrograph: FAST

Grating: 300

Date: 10/20/97

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
94	COMP			?		
95	N6608W	18:11	+16:19	43	6m	W em
96	N6608E	18:11	+16:19	43	21m	E
97	COMP			?		
98	18117p6419	18:11	+16:19	43	5m	em
99	COMP			?		
100	18144p6810	18:14	+16:10	43	10m	em extended
101	COMP			?		
102	18120p6952	18:12	+16:53	43	5m	
103	COMP			?		
104	18421p6358	18:42	+16:58	43	4m	
105	COMP			?		
106	20480p0705	20:48	+10:05	43	6m	
107	COMP			?		
108	519600947	22:18	+13:57	59	6m	
109	COMP			?		
110	581.005389	22:43	+10:55	55	4m	
111	COMP			?		
112	581.0056085	23:07	+10:56	55	4m	
113	COMP			?		
114	581.006488	23:02	+10:55	55	5m	
115	COMP			?		
116	581.007793	23:03	+10:01	55	4m	em
117	COMP			?		
118	581.010169	22:56	+10:12	55	4m	
119	COMP			?		
120	581.012831	22:56	+10:21	55	5m	
121	COMP			?		
122	581.016146	22:46	+10:32	55	5m	
123	COMP			?		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5732</u>	
Observer: <u>PB</u>			Grating: <u>3002</u>		Date: <u>10/30/97</u>	
PI: <u>Geller</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
124	S81.019708	22:50	+04:45	SS	5m	
125	COMP			↑		
126	S81.020257	22:45	+04:46	SS	5m	
127	COMP			↑		
128	S81.022720	22:52	+04:55	SS	5m	
129	COMP			↑		
130	S81.025810	22:44	+05:13	SS	5m	
131	COMP			↑		
132	S81.040872	22:53	+05:54	SS	4m	
133	COMP			↑		
134	S81.043650	22:48	+06:03	SS	5m	* b/w
135	COMP			↑		
136	S81.044876	22:43	+06:07	SS	5m	
137	COMP			↑		
138	S81.050943	23:00	+06:28	SS	3m	
139	COMP			↑		
140	S81.051087	23:04	+06:28	SS	4m	
141	COMP			↑		
142	S81.055115	23:04	+06:42	SS	4m	
143	COMP			↑		
144	S81.056992	23:10	+06:48	SS	3m	
145	COMP			↑		
146	S81.058259	23:10	+06:53	SS	3m	
147	COMP			↑		
148	S81.059201	23:03	+06:56	SS	5m	
149	COMP			↑		
150	S81.061611	23:02	+07:04	SS	4m	
151	COMP			↑		
152	S81.062056	23:10	+07:06	SS	4m	
153	COMP			↑		

60 inch Telescope Log

Observer: PB

PI: Cneller

Spectrograph: FAST

Grating: 302L

Date: 10/20/97

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
154	S81.064325	22:48	+07:14	SS	5m	
155	COMP			↑		windy
156	S81.065902	23:01	+07:19	SS	4m	
157	COMP			↑		
158	S81.069315	23:00	+07:31	SS	5m	
159	COMP			↑		
160	S81.073688	23:00	+07:46	SS	4m	
161	COMP			↑		
162	S81.074204	23:04	+07:48	SS	4m	
163	COMP			↑		
164	S81.075663	23:04	+07:53	SS	5m	
165	COMP			↑		
166	S81.076607	23:04	+07:56	SS	5m	em! wk...
167	COMP			↑		
168	S81.077495	23:06	+07:59	SS	3m	SW
169	S81.077735	23:06	+08:00	SS	4m	NE
170	COMP			↑		
171	S81.079616	23:05	+08:03	SS	4m	wk
172	COMP			↑		
173	S81.080601	22:53	+08:11	SS	5m	
174	COMP			↑		
175	S81.081612	22:59	+08:14	SS	4m	
176	COMP			↑		
177,179	S81.081755	23:02	+08:14	SS	4m, 7m	x2 #177=too weak
178,180	COMP			↑		
181	S81.086180	23:05	+08:30	SS	6m	* to W
182	COMP			↑		
183	S81.087824	22:59	+08:37	SS	5m	
184	COMP			↑		
185	S81.0889759	22:43	+08:43	SS	5m	

60 inch Telescope Log

Observer: PB  
 PI: Grolier & Grogin

Spectrograph: FMS  
 Grating: 30R  
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Number	Object	R. A.	Dec.	L/R	Exp	Comments
186	COMP			↑		
187	S81.086666	22:55	+08:40	SS	6m	
188	COMP			↑		
189	S81.090099	22:44	+08:44	SS	4m	
190	COMP			↑		
191	S81.090500	22:43	+08:46	SS	5m	
192	COMP			↑		
193	S81.091573	22:49	+08:03	SS	5m	
194	COMP			↑		
195	S81.096150	23:05	+08:57	SS	8m	
196	COMP			↑		
197	S81.097413	22:43	+08:43	SS	7m	
198	COMP			↑		
199	S81.101688	22:48	+08:27	SS	6m	
200	COMP			↑		
201	S81.105332	22:47	+08:39	SS	6m	
202	COMP			↑		
203	S81.102822	23:05	+08:29	SS	7m	
204	COMP			↑		
205	23252p181562	23:25	+18:10	42	7m	
206	COMP			↑		
207	23357p115701	23:38	+11:49	42	7m	
208	COMP			↑		
209	E3102	00:32	+11:57	42	11m	
210	COMP			↑		
211	00341p211761	00:31	+21:19	42	5m	
212	COMP			↑		
213	00372p20862	00:36	+20:58	42	11m	
214	COMP			↑		
215	E7301	01:02	+04:22	42	6m	

60 inch Telescope Log

Observer: PBPI: Ganguly, MahdaviSpectrograph: 300QGrating: FASTPage: 5735Date: 10/30/97

Number	Object	R.A.	Dec.	L/R	Exp	Comments
216	COMP			r		
217	01206m1039f3	01:20	-10:44	42	7m	
218	COMP			r		
219	01206m1039f5	01:21	-10:34	42	20m	
220	COMP			r		
221	sig 6/19.03	01:51	+05:56	59	11m	wk; but looks ok
222	COMP			r		
223	119.07	01:51	+05:15	59	15m	
224	COMP			r		
225	119.13	01:52	+05:26	59	15m	
226	COMP			r		
227	119.41	01:56	+05:46	59	2m	
228	COMP			r		
229	119.42	01:58	+06:02	59	2m	
230	COMP			r		
231	119.43	01:57	+04:33	59	2m	
232	COMP			r		
233	119.44	01:57	+05:26	59	5m	
234	COMP			r		
235	119.46	01:58	+04:23	59	5m	
236	COMP			r		
237	119.47	01:58	+06:35	59	15m	
238	COMP			r		
239	119.48	01:58	+05:25	59	5m	
240	COMP			r		
241	APSI14	03:07	+20:26	43	7m	* close by told ok?
242	COMP			r		
243	APSI15	03:08	+20:38	43	7m	
244	COMP			r		
245	APSI17	03:13	+20:44	43	11m	

60 inch Telescope Log

Observer: PB  
 PI: Huchra

Spectrograph: FAST

Grating: 300L

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
246	COMP			↑		
247	AP5120	03:06	+20:31	43	8m	
248	COMP			↑		
249	AP5118	03:27	+20:42	43	7m	
250	COMP			↑		
251	AP5121	03:13	+20:30	43	7m	wk
252	COMP			↑		
253	AP5122	03:14	+20:30	43	11m	
254	COMP			↑		
255	AP5123	03:15	+20:30	43	9m	
256	COMP			↑		
257	AP5124	03:15	+20:26	43	15m	
258	COMP			↑		
259	AP5125	03:17	+20:36	43	15m	
260	COMP			↑		avoid bright & rotate
261	AP5079	04:02	+28:12	43	8m	PA = -60 em
262	COMP			↑		done last
263	C0631p09	06:31	+09:06	43	4m	PA = 90 #3 + 1W
264	COMP			↑		
265	C0631p06	06:34	+06:01	43	1m	sup *
266	C0631p06	"	"	43	7m	flux redo; no em
267	COMP			↑		
268	C0636p26B	06:36	+26:44	43	6m	em
269	COMP			↑		
27071	DLTan	04:33	+75:20	12	2m/25	
272	COMP			↑		
273274	DGTan	04:26	+26:06	12	90, 10s	
275	COMP			↑		
276277	DRTan	04:47	+16:58	12	75, 10s	
278	COMP			↑		

60 inch Telescope Log

Observer: PB

Spectrograph: FAST

Grating: XJR

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PI: All

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
277-280	Hiltner 600	06:42	+02:41	S6	40s	
281	COMP			T		
282-284	HD 63733	07:49	-19:40	S7	4s	
285	COMP			T		
286-288	HD 64332	07:53	-11:37	S7	4s	
289	COMP			T		
290-292	HD 64337	07:58	-17:51	S7	4s	
293	COMP			T		
294-296	HD 63702	07:47	-15:59	S7	2s	
297	COMP			T		
298-300	HD 68712	06:11	-07:46	S7	2s	
301	COMP			T		clear to dawn
302-304	HD 69243	06:16	+1:44	S7	0.5s	
305	COMP			T		
306-308	HD 52971	06:57	+27:47	S7	4s	
309	COMP			T		
310-319	BIAS			0	0s	
320-329	FLAT			0	6s	
330-334	DARK					

60 inch Telescope Log

Observer: D. KORANYI

PI: KENTON/GRODWIN

Spectrograph: FAST

Grating: 300-L

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-8	DARK			0	15m	
9-18	BIAS			0	0s	
19-28	FLAT			0	6s	
29-38	BIAS			0	0s	BIW x2
39-48	FLAT			0	12s	BIW x2
49-54	SKY			0	2s	BIW x4
55	COMP			↑	6s	
56-60	HD 192251	20:10:46.8	40:07:01	56	5s	CLEAR; WIND ~ 15 mph
61	COMP			↑	6s	
62-63	CI Cyg	19:50:12	35:41:04	12	19, 30s	
64	COMP			↑	6s	
65-66	Z And	23:33:40	48:49:06	12	0.5s, 12s	
67	COMP			↑	6s	
68-69	NT 331	22:34	34:09	57	3m	
70	COMP			↑	6s	
71	23410p1123F1	23:40:20	11:29:34	42	6m	
72	COMP			↑	6s	
73	23337p1157F2	23:35:13	11:44:32	42	12m	
74	COMP			↑	6s	
75	23410p1123F3	23:40:51	11:27:22	42	10m	
76	COMP			↑	6s	
77	23407p1007F1	23:44:01	10:01:43	42	10m	
78	COMP			↑	6s	
79	007502p2056F3	02:47:00	14:38:20	24	15m	
80	COMP			↑	6s	
81	007502p2056F4	02:47:00	14:45:22	24	12m	
82	COMP			↑	6s	
83	007502p2056F5	02:47:00	14:52:33	24	15m	
84	COMP			↑	6s	
85	007502p2056F6	02:47:00	15:04:50	24	10m	BIW x1

60 inch Telescope Log

Observer: D. KORANYI

PI: GROGAN

Spectrograph: FAST

Grating: 300R

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
86	COMP			f	6s	
87	N7509	23:09:57	14:20:13	42	15m	BURN-IN
88	COMP			f	6s	
89	23357p1157	23:35:40	11:56:39	42	20m	BURN-IN
90	COMP			f	6s	} J. PUTTY, SAME OBJECT 2020m
91	23357p1157	23:35:40	11:56:39	42	20m	
92	COMP			f	6s	
93	00279p0536	00:27:54	08:55:05	42	15m	"
94	COMP			f	6s	
95	N7549	23:12:48	18:46:07	42	15m	"
96	COMP			f	6s	
97	23256p1815	23:25:34	18:15:21	42	15m	"
98	COMP			f	6s	
99	23307p1555	23:30:37	15:55:52	42	20m	"
100	COMP			f	6s	
101	I1513	23:50:56	11:02:22	42	15m	" STAR ON SLIT TO E.
102	COMP			f	6s	
103	N7811	23:59:22	03:04:24	42	12m	"
104	COMP			f	6s	
105	00055p0926	00:05:22	09:26:22	42	12m	"
106	COMP			f	6s	
107	MRK 335	00:09:19	20:12:41	6	3m	
108	COMP			f	6s	
109	00059p0956	00:05:54	09:55:58	42	15m	BURN-IN
110	COMP			f	6s	
111	00101p0514	00:10:04	05:13:38	42	20m	BURN-IN
112	COMP			f	6s	
113	00227p0613	00:22:40	06:13:16	42	20m	BURN-IN
114	COMP			f	6s	
115	00498p1415	00:49:50	14:14:48	42	20m	FAINT!

60 inch Telescope Log

Observer: D. KORMYI

PI: GROGIN/MANDAYI/BARTON

Spectrograph: FAST

Grating: 300E

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
116	COMP			+	6s	
117	20570 p 1504	00:57:01	15:03:41	42	12m	300N-1W
118	COMP			+	6s	
119-120	AX Pen	01:36:23	54:55:02	12	31,701	
121	COMP			+	6s	
122	5096 119.17	01:53:58	04:53:19	59	12m	
123	COMP			+	6s	
124	5096 119.18	01:54:00	04:54:33	59	15m	
125	COMP			+	6s	
126	5096 119.19	01:54:16	04:55:10	59	15m	QUITE WINDY
127	COMP			+	6s	
128	5096 119.20	01:54:17	04:55:29	59	4m	STAR? <sup>yes</sup> 2 <sup>right</sup> both stars
129	COMP			+	6s	
130	5096 119.21	01:54:29.8	04:56:30	59	15m	
131	COMP			+	6s	
132	5096 119.22	01:54:24	04:56:12	59	15m	
133	COMP			+	6s	
134	5096 119.23	01:54:24	04:58:09	59	6m	
135	COMP			+	6s	
136	5096 119.24	01:54:29	04:56:56	59	6m	
137	COMP			+	6s	
138	5096-156	02:04:20	45:46:34	60	8m	
139	COMP			+	6s	
140	5096-157	02:04:31	45:46:22	60	5m	
141	COMP			+	6s	
142	5096-174	02:25:24.5	27:13:15	60	5m	
143	COMP			+	6s	
144	5096-175	02:25:47	27:14:31	60	5m	
145	COMP			+	6s	
146	5096-182	02:25:20	27:13:43	60	10m	FURRY

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5741</u>	
Observer: <u>DKORANYI</u>			Grating: <u>3008</u>		Date: <u>10/31/97</u>	
PI: <u>BARTON/HUCHRA/KEWTON</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
147	COMP			↑	6s	
148	Sagal-183	02:35:22	37:31:09	60	7m	
149	COMP			↑	6s	
150	AP5128	03:08:30	20:41:02	43	10m	
151	COMP			↑	6s	
152	AP5129	03:09:38	20:18:40	43	8m	
153	COMP			↑	6s	
154	AP530	03:09:48	20:16:06	43	12m	
155	COMP			↑	6s	
156	AP5131	03:15:10	20:13:17	43	12m	
157	COMP			↑	6s	
158-159	DL Tau	04:27:05	26:06:16	12	10s, 90s	
160	COMP			↑	6s	
161-162	DL Tau	04:33:39	25:20:39	12	10s, 150s	
163	COMP			↑	6s	
164-165	DL Tau	04:47:05	16:58:37	12	10s, 75s	
166	COMP			↑	6s	
167	COS41p13	05:41:09	17:04:52	43	15m	V. FAINT
168	COMP			↑	6s	
169	COS45p14	05:45:36	14:03:15	43	15m	"
170	COMP			↑	6s	
171	COS46p14	05:46:41	14:59:04	43	15m	
172	COMP			↑	6s	
173	COS53p17	05:52:31	18:40:06	43	12m	
174	COMP			↑	6s	
175-179	HILTNER 600	06:42:37	02:11:25	56	30s	GETTING LIGHT IN EAST.
180	COMP			↑	6s	
181-190	BIAS				0s	
191-200	FLAT				6s	