

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	+159:55	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

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
87	±5060	21-02	+19-12	43	2m	±'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			↑		

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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	Z15m280	00:41	+11:05	56	4m	
150	COMP			7		
151-152	AXPer	01:36	+54:45	12	4s, 75s	
153	COMP			7		
154-155	Z160	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  
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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: FAST  
 Grating: 300R  
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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	+04:56	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