

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>5972</u>
Observer: <u>P Berlin</u>				Grating: <u>300R</u>		
PI: <u>AI</u>				Date: <u>1/23/98</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BDAS			0	0s	
11-20	FLAT			0	6s	
21-30	BDAS			0	0s	bin by 2
31-40	FLAT			0	12s	bin by 2
41	DARK			0	15m	bin by 2
42-46	sky			57	2s	
47	WMP			r		
48-50	HD 6200	01:04	+51W	57	2s	
51				r		
52-54	HD 6130	01:03	+61W	57	2s	
55				r		
56-61	HD 5005	00:52	+56.57	57	5s	
62				r		
63-66	HD 6327	00:55	+60:25	57	20s	
67				r		
68-69	ZAW	23		12	1,15	
70				r		
71-72	AXPc	01		12	3,80	
73				r		
74-75	DGTan	04		12	10s, 90s	clouds
76	WMP			r		
77-78	DLTan	04		12m	30s, 4m	
79	WMP			r		
80-81	DRTan	04		12m	10, 50	
82	WMP			r		
83-84	RWAu	05		12	5, 30	
85	WMP			r		
86	MRK335	00:03	+19:55	6	3m	
87	WMP			r		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5973</u>	
Observer: <u>PB</u>			Grating: <u>3002</u>			
PI: <u>Huchra</u>			Date: <u>1/23/98</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
88	2340701007	23:40	+10:06	42	6m	C2 redo for Norm em
89	WMP			↑		thin clouds all over
90	2M024125.1	2:41	+17:20	68	12m	high z
91	WMP			↑		
92	2M024122.8	02:41	+13:56	68	15m	
93	WMP			↑		
94	2M024122.2	02:41	+13:23	68	15m	em
95	WMP			↑		
96	2M024125.0	02:41	+13:20	68	20m	cosmic ray on top of H $\alpha$
97	WMP			↑		at 2372
98	2M024118.2	02:41	+14:16	68	20m	em
99	WMP			↑		
100	2M024126.5	02:41	+15:24	68	15m	
101	WMP			↑		
102	2M024134.5	02:41	+16:55	68	15m	tz to E
103	WMP			↑		
104	2M024119.7	02:41	+15:18	68	12m	em pix 2310
105	WMP	02:41	+15:01	↑		moving comp <sup>JPH</sup> sample
106	2M024129.4	02:41	+14:24	68	15m	still thin clouds all over
107	WMP			↑		but great seeing!
108	2M024179.1	02:41	+13:49	68	17m	tz to W
109	WMP			↑		
110	2M024128.2	02:41	+13:19	68	18m	
111	WMP			↑		
112	2M0325532	03:25	+29:10	68	15m	em
113	WMP			↑		
114	2M032606.7	03:26	+28:25	68	15m	
115	WMP			↑		
116	2M032606.1	03:26	+28:28	68	17m	em
117	WMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5974</u>	
Observer: <u>PB</u>			Grating: <u>300L</u>			
PI: <u>Kirshner &amp; Kwaranyi</u>			Date: <u>1/23/98</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
118	AKn120	05:13	-07:12	6	3m	
119	COMP			↑		
120-1	Hiltner 60	06:42	-10:2	56	45s	bimby 2
122	COMP			↑		
123, 124, 127	SN 1997ef	07:57	+49:33	2	20m	* 3 " ok
124, 126, 128	COMP			↑	12s	pulse of clouds moving in
129	mKw1-001	10:00	-02:58	35	90s	
130	COMP			↑		
131	mKw1-002	09:59	-02:52	35	2m	
132	COMP			↑		thick clouds in N
133	003	10:00	-02:00	35	4m	
134	COMP			↑		
135	004	10:00	-02:58	35	4m	
136	COMP			↑		clouds, clouds, clouds
137	005	10:03	-02:24	35	4m	wk; em
138	COMP			↑		
139	006	10:01	-02:59	35	4m	
140	COMP			↑		
141	007	10:02	-03:02	35	12m	em
142	COMP			↑		more clouds
143	008	09:58	-03:01	35	15m	bimby 2; * to E (close) <sup>map</sup>
144	COMP			↑		gal has em
145	009	10:00	-02:58	35	2m	* late night radio pings off;
146	COMP			↑		w/ free t-shirt *
147	010	09:58	-02:49	35	6m	
148	COMP			↑		
149	011	09:58	-03:33	35	7m	
150	COMP			↑		clearing
151	012	09:59	-03:10	35	4m	
152	COMP			↑		

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>5975</u>		
Observer: <u>FB</u>		Grating: <u>3002</u>				
PI: <u>Huchra/Koranyi/Geller</u>		Date: <u>1/23/98</u>				
Number	Object	R.A.	Dec.	L/R	Exp	Comments
153	2M084939.4	08:49	+11:03	68	15m	
154	COMP			↑		clean-up
155	NG02252	08:08	+28:01	75	11m	em
156	COMP			↑		
157	B000124	08:15	+28:44	75	15m	em
158	COMP			↑		
159	980112.105.3093	09:18	+21:17	68	15m	b.l. em gal → S <sub>2</sub> 1
160	COMP			↑		
161	980112.94.371	09:16	+21:06	68	15m	QSO!
162	COMP			↑		
163	mKw1-013	10:00	-07:02	35	4m	
164	COMP			↑		
165	014	10:00	-02:57	35	3m	
166	COMP			↑		
167	015	10:00	-02:56	35	2m	
168	COMP			↑		
169	016	10:02	-03:15	35	12m	em
170	COMP			↑		
171	017	10:01	-03:06	35	12m	nearby to W of gal ; em
172	COMP			↑		
173	018	10:02	-02:15	35	15m	em
174	COMP			↑		
175	a1367.1818	11:37	+20:09	64	4m	
176	COMP			↑		
177	.1828	11:42	+20:05	64	5m	
178	.1831	11:42	+20:07	64	4m	em
179	COMP			↑		
180	.1845N	11:44	+20:13	64	4m	N
181	.1815S	11:44	+20:13	64	2m	S
182	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>			Page: <u>5976</u>
Observer: <u>PB</u>			Grating: <u>300L</u>			
PI: <u>Geller</u>			Date: <u>1/23/98</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
183	a1367.1869SE	11:52	+70:08	64	2m	
184	.1869NW	11:52	+70:08	64	3m	-wk.
185	COMP			f		
186	.1870	11:52	+70:14	64	8m	
187	COMP			f		ugh - more clouds
188	.2149	11:30	+18:26	64	5m	
189	COMP			f		
190	.2538	11:37	+70:09	64	5m	
191	COMP			f		
192	.2540	11:35	+70:01	64	5m	
193	COMP			f		
194	.2595	11:36	+70:00	64	2m	
195	COMP			f		
196	.2614	11:42	+70:01	64	5m	
197	COMP			f		
198	.2625	11:43	+70:02	64	4m	
199	COMP			f		
200	.2627	11:43	+19:59	64	3m	
201	.2630	11:44	+19:59	64	2m	
202	COMP			f		
203	a1367.2631	11:44	+19:36	64	3m	central cD !! - beauty
204	.2633	11:44	+19:59	64	2m	
205	COMP			f		
206	.2676	11:44	+70:04	64	90s	
207	COMP			f		
208	.2638N	11:45	+70:01	64	5m	
209	.2638S	11:45	+70:01	64	6m	
210	COMP			f		
211	.2651	11:50	+70:02	64	5m	
212	COMP			f		

60 Inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5977</u>	
Observer: <u>PS</u>			Grating: <u>300R</u>			
PI: <u>Geller &amp; Wilkes</u>			Date: <u>1/23/98</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
213	a1367.2675	11:39	+19:48	64	10m	big clouds
214	COMP			↑		
215	.2684	11:43	+19:44	64	4m	
216	.2686	11:43	+19:44	64	3m	
217	COMP			↑		
218	.2688	11:44	+19:50	64	2m	
219	.2689	11:44	+19:49	64	2m	
220	COMP			↑		
221	.2701	11:44	+19:49	64	2m	
222	COMP			↑		
223	NSS8	11:45	+19:52	6	3m	
224	COMP			↑		
225	MRK279	13:51	+16:33	6	2m	
226	COMP			↑		
227	NRS8	12:16	+17:34	6	2m	
228	COMP			↑		scattered clouds
229	NH151	12:00	+44:48	6	2m	- clearing
230	COMP			↑		⊙ Dawn
231	NH151	12:08	+39:41	6	30s	
232	COMP			↑		
233-34	H244	13:21	+36:23	56	90s	
235	COMP			↑		
236-27	Feyo98	14:36	+27:12	56	90s	
238	COMP			↑		
239-248	BIAS				0s	
249-258	FLAT				6s	
259-268	BIAS				0s	bm by 2
269-278	FLAT				12s	bm by 2
279-288	DARK				15m	bm by 4