

60 inch Telescope Log

Observer: P. Berlin
 PI: Kemp/Geller

Spectrograph: FAST
 Grating: 3002, 3° slit, 6mbly 4
 Date: 1/24/96

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS			0	0s	Steve Amato adjusted
11-20	FLAT			0	6s	FAST electronics again
21-25	SKY			0	2s	today; looks ok
26	COMP			↑	5s	
27-30	63TAM			0	5s	
31	COMP			↑		some dust to N+W
32-35	HD217086	22:54	+62:27	0	5s	
36	COMP			↑		
37-40	AG Reg	21:51	+12:37	12	6-3s	
41	COMP			↑		
42-45	Z And	23	+48:49	12	1-30s	
46	COMP			↑		
47-49	RAgr	23:43	-15:17	12	15-15s	
50	COMP			↑		
51-53	Fergello	23:17	-05:26	0	1m	
54	COMP			↑		
55	MRK335	00:05	+19:55	6	90s	
56	COMP			↑		
57-60	EG And	00:44	+40:44	12	14s	
61	COMP			↑		
62-64	AX Per	01:33	+54:40	12	2-60s	
65	COMP			↑		
66-68	G A 132B	05:01	+52:45	0	90s	
69	COMP			↑		
70-72	UVAur	05:48	+32:27:51	12	140s	
73	COMP			↑		
74	470.050270	02:20	+12:59	3	10m	
75	COMP			↑		
76	470.051198	02:28	+13:03	3	10m	
77	COMP			↑		

8.53
1.16

60 inch Telescope Log			Spectrograph: <u>FAST</u>			
Observer: <u>PB</u>			Grating: <u>3000</u>		Page: <u>4338</u>	
PI: <u>Geller/Kirshner</u>			Date: <u>1/24/96</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
78	470.052861	02:57	+13:10	3	7m	* pW
79	COMP			↑		
80	470.053325	02:57	+13:12	3	7m	
81	COMP			↑		
82	470.053364	02:21	+13:12	3	8m	
83	COMP			↑		clouds...
84	470.054013	02:29	+13:15	3	8m	
85	COMP			↑		
86	470.053991	02:33	+13:15	3	10m	Hd
87	COMP			↑		
88	470.053717	02:42	+13:13	3	12m	Hc
89	COMP			↑		
90	470.054037	02:42	+13:14	3	9m	more clouds
91	COMP			↑		
92	470.054560	02:29	+13:18	3	8m	
93	COMP			↑		
94	470.055147	02:23	+13:20	3	8m	
95	COMP			↑		
96	470.055548	02:19	+13:21	3	12m	Hk
97	COMP			↑		
98	470.056341	02:26	+13:25	3	7m	
99	COMP			↑		finishes the plate!
100	470.053007	02:26	+13:33	3	5m	Hd redo from 12/28 #54
101	COMP			↑		seeing 2"
102, 104, 106, 108	SNP95bcd	04:45:21	+11:04:02	2	15m	bin by 2 x4
103, 105, 107, 109	COMP			↑		seeing 1.5"
110-111	Hiltner 600	06:42	+02:11	0	45s	bin by 4
112	COMP			↑		
113	07547p4224EW	07:54	+42:24	1	8m	of triplet!
114	COMP			↑		2 galaxies on slit 1 has H α

Moon 00:30 +4°

60 Inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>4339</u>
Observer: <u>PB</u>				Grating: <u>300L</u>		
PI: <u>Huchra/Barton/Kirshner/Geller</u>				Date: <u>1/24/96</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
115	07548p3958	07:51	+39:58	1	15m	He ← He
116	COMP			↑		one of those!
117	gr 5341 gal 25	09:08:51	+23:05:53	33	20m	
118	COMP			↑		Moon set
119	gr 5341 gal 22	09:10:11	+22:45:49	33	15m	He Clouds Gone
120	COMP			↑		Nice Seeing
121	Z 32 RC DE	10:29:39	+27:29:19	1	20m	slit rotated to PA=135°
122	COMP			↑		C=row 20 D=row 55
123,125,127	SN 1993J	09:19	+69:15	2	20m	E=row 70
124,126,128	COMP			↑	8s	→ Kirby 2
129	317.029832	11:10	+28:20	3	7m	
130	COMP			↑		
131	317.030383	11:02:44	+28:25:03	3	6m	
132	COMP			↑		
133	317.046995	10:59	+29:18	3	5m	
134	COMP			↑		
135	317.046486	10:50	+29:48	3	4m	
136	COMP			↑		
137	317.046757	11:08	+29:48	3	12m	He
138	COMP			↑		
139	317.046879	11:04	+29:49	3	4m	
140	COMP			↑		
141	317.047111	10:59	+29:52	3	6m	
142	COMP			↑		
143	317.047361	10:59	+29:53	3	5m	
144	COMP			↑		W-A=22K E=32K (H+)
145	317.047436	11:00	+29:53	3	7m	comp 3" to E 00
146	COMP			↑		
147	317.047440	10:49	+29:53	3	7m	He
148	COMP			↑		

60 inch Telescope Log		Spectrograph: <u>FAST</u>				
Observer: <u>PB</u>		Grating: <u>300L</u>			Page: <u>4310</u>	
PI: <u>Geller</u>		Date: <u>1/24/96</u>				
Number	Object	R.A.	Dec.	L/R	Exp	Comments
149	317.047999	11:01	+29:56	3	9m	HA
150	COMP			↑		
151	317.048590	11:05	+29:58	3	5m	strong HA
152	COMP			↑		
153	317.049278	11:00	+30:03	3	6m	
154	COMP			↑		
155	317.049704	11:05	+30:04	3	6m	
156	COMP			↑		
157	317.049711	10:52	+30:05	3	7m	
158	COMP			↑		
159	317.050981	10:51	+30:12	3	6m	
160	COMP			↑		
161	317.051870	10:58	+30:17	3	6m	
162	COMP			↑		
163	317.052049	10:49	+30:17	3	6m	
164	COMP			↑		
165	317.052894	11:00	+30:22	3	6m	
166	COMP			↑		
167	317.054820	10:47	+30:32	3	4m	
168	COMP			↑		
169	317.054743	11:05	+30:31	3	9m	
170	COMP			↑		
171	317.054532	11:12	+30:28	3	8m	
172	COMP			↑		
173	317.054759	10:43	+30:32	3	4m	
174	COMP			↑		
175	317.055768	10:47	+30:37	3	3m	cute companion 10" SW
176	COMP			↑		
177	317.055900	10:47	+30:38	3	4m	
178	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FIRST</u>			
Observer: <u>PB</u>			Grating: <u>3002</u>		Page: <u>4341</u>	
PI: <u>Geller/Wilkes</u>			Date: <u>1/24/96</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
179	317.056872	11:09	+30:42	3	7m	
180	COMP			↑		
181	317.057100	11:10	+30:42	3	4m	
182	COMP			↑		
183	317.060715	11:08	+31:03	3	5m	
184	COMP			↑		
185	317.061353	10:43	+31:07	3	5m	H _α
186	COMP			↑		
187	317.061508	10:47	+31:09	3	10m	superposed star off slit ⊗
188	COMP			↑		
189	317.061724	11:08	+31:09	3	5m	
190	COMP			↑		
191	317.061857	11:08	+31:10	3	5m	nice H _α
192	COMP			↑		
193	PG1402 p261	14:02	+26:06	45	4m	1.5" slit ↓
194	COMP			↑		
195	PG1440 p356	+14:40	+38:36	45	3m	
196	COMP			↑		
197	PG1440 p356	+14:40	+38:36	45	3m	5" slit ↓
198	COMP			↑		clear; nice seeing < 1.5"
199	PG1402 p261	+14:02	+26:06	45	3m	
200	COMP			↑		
201-202	Fer98	14:36	+27:42	0	1m	
203	COMP			↑		
204-205	H214	13:21	+36:23	0	1m	
206	COMP			↑		
207	320.017329	12:22	+27:18	3	6m	3" slit ↓
208	COMP			↑		
209	320.018888	12:24	+27:23	3	6m	
210	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>			
Observer: <u>PB</u>			Grating: <u>3000</u>		Page: <u>4342</u>	
PI: <u>Wilkes</u>			Date: <u>1/24/96</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
211	MRK21	11:01	+39:28	6	5m	
212	COMP			↑		
213	N4051	12:00	+44:48	6	2m	
214	COMP			↑		
215	N4151	12:08	+39:41	6	30s	
216	COMP			↑		
217	MRK219	13:51	+69:33	6	90s	
218	COMP			↑		
219	N 5548	14:15	+25:22	6	2m	
220	COMP			↑		
221-224	700m	13:28	+13:47	0	2s	
225	COMP			↑		
226-227	N5866	15:05	-55:57	0	90s	nice dust lane
228	COMP			↑		
229-238	BIAS			0	0s	
239-248	FLAT			0	6s	3" slit
249-258	BIAS			2	0s	bin by 2
259-268	FLAT			2	12s	bin by 2
269-278	FLAT			45	12s	1.5" slit bin by 4
279-288	FLAT			45	3s	5" slit
						crystal clear down