


60 inch Telescope Log		Spectrograph: <u>FAST</u>				P.A. <u>90°</u>
Observer: <u>B. Carter</u>		Grating: <u>300 L, 3" slit, binby 4</u>				Page: <u>6334</u>
PI: <u>Kirshner, Wilkes, Carter</u>		Date: <u>6/17/98</u>				except as noted
						<u>clear</u>
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS				0	binby 4
11-20	BIAS				0	binby 2
21-30	FLAT				12s	binby 2
31-40	FLAT				6s	binby 4
41-45	DARK				15m	"
46-50	DARK				15m	binby 2
51-55	sky				1s	binby 4
56-60	sky				2s	binby 2
61	COMP				6s	binby 4
62	COMP				12s	binby 2
63	H244	13:21	+36:23	# 56	2m	binby 4 sky quite bright
64	COMP			↑	6s	
65-67	sn 1998 bu	10:46	+11:50	# 2	5m	} binby 2
68	COMP			↑	12s	
69	Feige 24	10:26	+43:21	# 56	10s	
70	COMP			↑	12s	
71	N4151	12:08	+39:41	# 6	30s	binby 4
72	COMP			↑	6s	
73	N4258	12:16	+47:34	# 6	2m	
74	COMP			↑		
75	MRK 279	13:51	+69:33	# 6	3m	
76	COMP			↑		
77	Z 007396	13:16	+30:40	# 75	5m	105
78	COMP			↑		
79	Z 003484	13:16	+31:01	# 75	3 1/2 m	faint extended face-on disk 106 (halo?) - only seen on finding chart
80	COMP			↑		
81	Z 011704	13:16	+31:34	# 75	7m	lumpy  107
82	COMP			↑		
83	Z 010046	13:17	+30:32	# 75	3m	108
84	COMP			↑		

60 inch Telescope Log

Observer: B. Carter

PI: Carter



Spectrograph: FAST



Grating: 300R, 3" slit, bin by 4

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Date: 6/17/98

clear

Number	Object	R.A.	Dec.	L/R	Exp	Comments
85	Z011705	13:17	+31:03	#75	7m	109
86	COMP			↑		
87	Z002743	13:17	+31:05	#75	5m	finding chart shows lovely spiral structure (emission lines)  110
88	COMP			↑		
89	Z006263	13:17	+27:74	#75	3 1/2 m	111
90	COMP			↑		
91	Z004009	13:18	+31:28	#75	4m	Err (spectrum is blue!) 112
92	COMP			↑		
93	Z008588	13:18	+31:20	#75	3m	113
94	COMP			↑		
95	Z013764	13:18	+30:51	#75	3m	114
96	COMP			↑		
97	Z010047	13:18	+30:46	#75	3m	115
98	COMP			↑		
99	Z002344	13:19	+28:30	#75	3m	 116
100	COMP			↑		
101	Z002681	13:19	+30:15	#75	4m	117
102	COMP			↑		
103	Z008589	13:19	+30:07	#75	3m	118
104	COMP			↑		
105	Z007397	13:20	+31:58	#75	3 1/2 m	119
106	COMP			↑		
107	Z007398	13:20	+30:59	#75	3 1/2 m	120
108	COMP			↑		
109	Z013765	13:20	+30:53	#75	5m	121
110	COMP			↑		
111	Z005409	13:20	+31:30	#75	6m	122
112	COMP			↑		
113	Z011706	13:20	+30:36	#75	5m	star to W 123
114	COMP			↑		

60 inch Telescope Log				Spectrograph: <u>FAST</u>		
Observer: <u>B. Carter</u>				Grating: <u>300A, 3" slit, binby4</u> Page: <u>6336</u>		
PI: <u>Carter</u>				Date: <u>6/17/98</u> <u>clear</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
115	Z 008590	13:20	+32:00	#75	3m	124
116	COMP			↑		
117	N 001757	13:21	+31:13	#75	9m	broad disk, face-on 125
118	COMP			↑		
119	Z 006264	13:21	+31:23	#75	3 1/2 m	126
120	COMP			↑		
121	Z 011707	13:21	+31:22	#75	5m	127
122	COMP			↑		
123	Z 004618	13:21	+31:21	#75	6m	airmass 1.26 128
124	COMP			↑		
125	Z 005411	13:21	+31:14	#75	8m	129
126	COMP			↑		
127	Z 008594	13:21	+26:44	#75	3m	130
128	COMP			↑		
129	O 000079	13:22	+31:49	#75	10m	131
130	COMP			↑		
131	Z 001206	13:22	+26:58	#75	3m	132
132	COMP			↑		
133	Z 003012	13:22	+28:18	#75	5m	133
134	COMP			↑		
135	Z 005412	13:22	+27:06	#75	5m	134
136	COMP			↑		
137	N 002960	13:23	+31:38	#75	7m	airmass 1.50 135
138	COMP			↑		
139	Z 001474	13:23	+31:33	#75	3m	136
140	COMP			↑		
141	Z 002683	13:23	+30:59	#75	3m	 137
142	COMP			↑		
143	B 000127	13:24	+31:20	#75	7m	 1.63 138
144	COMP			↑		

60 inch Telescope Log				Spectrograph: <u>FAST</u>		
Observer: <u>B. Carter</u>				Grating: <u>300 L, 3" slit, binby4</u> Page: <u>6337</u>		
PI: <u>Wilkes, Gugin, Kenyon, Carter</u>				Date: <u>6/17/98</u> <u>clear</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
145	N 5548	14:15	25:22	#6	3m	
146	COMP			↑		
147	14032p310D	14:03	+31:00	#42	15m	special request
148	COMP			↑		
149,150	AG Dra	16:01	+66:48	#12	2s, 20s	
151	COMP			↑		
152	Z002077	14:17	+26:24	#75	4m	star to W 222
153	COMP			↑		
154	Z005416	14:18	+31:39	#75	3m	223
155	COMP			↑		
156	Z013789	14:18	+26:23	#75	5m	224
157	COMP			↑		
158	Z004621	14:18	+26:17	#75	3m	--- 225
159	COMP			↑		
160	Z011725	14:18	+26:35	#75	2 1/2 m	226
161	COMP			↑		
162	N000877	14:20	+26:51	#75	4m	star to W? 227
163	COMP			↑		
164	Z006270	14:21	+28:59	#75	3 1/2 m	228
165	COMP			↑		
166	Z007409	14:21	+31:35	#75	5m	229
167	COMP			↑		
168	Z008599E	14:23	+28:20	#75	4m	} two galaxies? Or just one lumpy gal? 2 galaxies
169	Z008599W	"	"	"		
170	COMP			↑		
171	Z011726	14:24	+27:42	#75	5m	lovely open spiral arms on finding chart 231
172	COMP			↑		--- 232
173	Z013791	14:24	+27:49	#75	5m	nothing to guide on! 232
174	COMP			↑		
175	Z013792	14:25	+26:27	#75	7m	233
176	COMP			↑		

60 inch Telescope Log			Spectrograph: FAST			
Observer: <u>B. Carter</u>			Grating: <u>300, 3" slit, binby 4</u> Page: <u>6338</u>			
PI: <u>Carter, Kirshner, Kenyon, Rines</u>			Date: <u>6/17/98</u> clear			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
177	N 001761	14:25	+30:28	#75	4m	234
178	COMP			↑		
179	N 001762	14:26	+27:11	#75	4m	235
180	COMP			↑		
181	Z 004014	14:26	+31:31	#75	10m	airmass 2.11 236
182	COMP			↑		
183	Z 000945	14:57	+29:58	#75	5m	star to W 234
184	COMP			↑		(Err)
185	N 002275	14:58	+26:44	#75	7m	235
186	COMP			↑		
187	Z 005418	14:59	+27:06	#75	6m	low (on chart) -- E=1 236
188	COMP			↑		nothing to guide on!
189	HD 192281	20:10	+	#56	2s	
190	COMP			↑		
191	HD 192281	"		#56	4s	} binby 2
192	COMP			↑	12s	
193	sn 1998bp	17:54	+18:19	#2	20m	} *
194	COMP			↑	12s	
195	Cyg OB2 no 9	20:31	+41:04	#56	20s	binby 4
196	COMP			↑		
197, 198	CICyg	19:50	+35:41	#12	1s, 30s	
199	COMP			↑		
200	E 347102	16:30	+40:36	#64	5m	102
201	COMP			↑		
202	E 347131	16:30	+40:36	#64	6m	103
203	COMP			↑		
204	E 347257	16:30	+40:37	#64	15m	really faint! 104
205	COMP			↑		
206	E 347284	16:30	+40:42	#64	13m	another faint one... 105
207	COMP			↑		

60 inch Telescope Log
 Observer: B. Carter
 PI: Rines, Wilkes, Kenyon
 Spectrograph: FAST
 Grating: 3001, 3" slit, binby 4 Page: 6339
 Date: 6/17/98 except as noted clear

Number	Object	R.A.	Dec.	L/R	Exp	Comments
208	E 348090	16:32	+40:34	#64	4m	star on E shoulder 106
209	COMP			↑		
210	E 34836	16:26	+37:50	#64	12m	faint object to E, very 117
211	COMP			↑		bright object to W - which is the intended target?
212	N 7469	23:03	+08:56	#6	2 1/2 m	← star to E
213	COMP			↑		
214, 215	ζ And	23:33	+48:49	#12	1s, 20s	
216	COMP			↑		
217	BDp 284211	21:51	+28:37	#56	20s	sky getting bright
218	COMP			↑		
219	V1515 Cyg	20:22	+44:02	#74	1m	
220	COMP			↑		
221	V1057 Cyg	20:57	+44:03	#74	1m	
222	COMP			↑		
223-232	FLAT	sunith			6s	
233-242	BIAS				0	
243-247	sky				1s	
248	COMP			↑	6s	
249-258	FLAT				12s	} binby 2
259-268	BIAS				0	

210 - bright object to W is star (α = ~~10~~ -160)
 fainter object to E is galaxy