

60 inch Telescope Log		Spectrograph: <u>FAST</u>				
Observer: <u>D. Carter</u>		Grating: <u>300L, 3" slit</u> except <u>as noted</u> Page: <u>6329</u>				
PI: <u>Kirshner, Wilkes, Carter</u>		Date: <u>6/16/98</u> (most exposures are binby4)				
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS				0	binby4
11-20	BIAS				0	binby2
21-30	FLAT				6s	binby4
31-40	FLAT				12s	binby2
41-50	FLAT				20s	1.1" slit, binby4
51-55	DARK				15m	(3" slit)
56-60	DARK				15m	binby2
61-65	sky				10s	(binby4)
66	COMP			↑	6s	
67	H244	13:21	+36:23	#56	2m	(sky still pretty bright)
68	COMP			↑	6s	
69-71	sn1998bu	10:46	+11:50	#2	5m	binby2
72	COMP			↑	12s	
73	sn1998ag	11:56	+55:07	#2	15m	galaxy to E, sn to W
74	COMP			↑	12s	
75	H244	13:21	+36:23	#56	4m	
76	COMP			↑	12s	
77	H244	"	"	#56	2m	binby4
78	COMP			↑	6s	
79	MRK421	11:01	+38:28	#6	4m	
80	COMP			↑		
81	MRK279	13:51	+69:33	#6	3m	
82	COMP			↑		
83	Z008587	13:05	+31:26	#75	5m	
84	COMP			↑		
85	Z013761	13:06	+28:35	#75	3 1/2 m	
86	COMP			↑		
87	Z006260	13:06	+28:32	#75	3 1/2 m	
88	COMP			↑		
89	Z013762	13:07	+28:02	#75	9m	
90	COMP			↑		

clear, some wind

60 inch Telescope Log

Observer: B. Carter

PI: Carter, Wilkes

Spectrograph: FAST

Grating: 300L, 3" slit, binby 4 Page: 6330

Date: 6/16/98 *photometric, calm*

Number	Object	R.A.	Dec.	L/R	Exp	Comments
91	Z011699	13:07	+28:42	#75	4m	
92	COMP			↑		
93	Z011700	13:08	+27:30	#75	4m	
94	COMP			↑		
95	Z005407	13:08	+28:19	#75	4m	
96	COMP			↑		
97	N5548	14:15	+25:22	#6	3m	
98	COMP			↑		
99	Z002341	13:08	+28:11	#75	4m	
100	COMP			↑		
101	Z011701	13:09	+30:02	#75	4m	
102	COMP			↑		
103	Z006261	13:10	+31:26	#75	4m	airmass 1.17
104	COMP			↑		
105	Z003480	13:11	+31:30	#75	3 1/2 m	
106	COMP			↑		
107	Z006262	13:12	+27:19	#75	3m	
108	COMP			↑		
109	Z003481	13:12	+26:41	#75	5m	emission
110	COMP			↑		
111	Z003482	13:12	+31:48	#75	3m	(5a)
112	COMP			↑		
113	N001360	13:12	+31:15	#75	10m	faint! small core, v. faint face-on.
114	COMP			↑		
115	Z011702	13:13	+27:45	#75	3 1/2 m	
116	COMP			↑		
117	Z001076	13:13	+27:48	#75	3m	airmass 1.31
118	COMP			↑		
119	O000030	13:14	+30:29	#75	7m	
120	COMP			↑		

60 inch Telescope Log

Observer: B. Carter

PI: Carter, Kenyon, Rines

Spectrograph: FAST

Grating: 300 Å, 3" slit, binby 4 Page: 6331

Date: 6/16/98 clear, calm

Number	Object	R.A.	Dec.	L/R	Exp	Comments
121	Z002075	13:14	+30:42	#75	3m	
122	COMP			↑		
123,124	AG Dra	16:01	+66:48	#12	2, 20s	
125	COMP			↑		
126	Z011703	13:15	+30:24	#75	3 1/2 m	airmass 1.39
127	COMP			↑		
128	Z007395	13:15	+31:50	#75	5m	
129	COMP			↑		
130	Z001077	13:16	+30:57	#75	3m	
131	COMP			↑		
132	Z005408	13:16	+30:15	#75	3m	airmass 1.96
133	COMP			↑		
134	162722m244807	16:27	-24:48	#74	2m	} possibly under exposed. redo? ¹³
135	COMP			↑		
136	162735m243834	16:27	-24:38	#74	4m	¹⁴
137	COMP			↑		
138	162739m243914	16:27	-24:39	#74	8m	¹⁶
139	COMP			↑		
140	162749m242540	16:27	-24:25	#74	5m	¹⁷
141	COMP			↑		
142	162803m242632	16:28	-24:26	#74	4m	¹⁸
143	COMP			↑		
144	162809m242322	16:28	-24:23	#74	10m	¹⁹
145	COMP			↑		
146	162854m244743	16:28	-24:47	#74	12m	airmass 2.0 ²⁰
147	COMP			↑		
148	E346326	16:29	+40:27	#64	6m	airmass 1.08 ⁹⁴
149	COMP			↑		
150	E346349	16:29	+40:35	#64	5m	⁹⁵
151	COMP			↑		

60 inch Telescope Log

Observer: B. Carter

PI: Rines, McClintock, Huchra, Kenyon

Spectrograph: FAST

Grating: 200 Å, 3" slit, binby 4 Page: 6332
(except as noted)

Date: 6/16/98 clear, moon

Number	Object	R.A.	Dec.	L/R	Exp	Comments
152	E 346364	16:29	+40:39	# 64	10m	96
153	COMP			↑		
154	E 346550	16:29	+40:43	# 64	8m	97
155	COMP			↑		
156	E 346551	16:29	+40:32	# 64	9m	star to E 98
157	COMP			↑		
158	E 346671	16:29	+40:41	# 64	6m	small stars to E? 99
159	COMP			↑		
160	E 347029	16:30	+40:39	# 64	7m	star to W? maybe missed 100 the slit.
161	COMP			↑		
162	E 347039	16:30	+40:35	# 64	10m	star to far W 101
163	COMP			↑		
164	COMP			↓	8s	1.1" slit
165, 166	4U 1907-09	19:09	+09:49	# 77	15m	↓
167	COMP			↑	8s	
168	HD 230579			# 77	15s	
169	COMP			↑	8s	
170	2M 174545.6p	17:45	+19:12	# 68	8m	3" slit 25
171	COMP			↑	6s	
172	HD 192281	20:12	+40:16	# 56	2s	
173	COMP			↑		
174	Cyg OB2 no 9	20:31	+41:04	# 56	20s	airmass 1.02
175	COMP			↑		
176	2M 173532.8p	17:35	+23:20	# 68	15m	airmass 1.27 26
177	COMP			↑		
178	2M 174542.6p	17:45	+23:05	# 68	13m	star to W 27
179	COMP			↑		
180, 181	CICyg	19:50	+35:41	# 12	1s, 30s	
182	COMP			↑		
183	2M 174954.4p	17:49	+17:55	# 68	15m	star to W 28
184	COMP			↑		

60 inch Telescope Log

Observer: B. Carter

PI: Huchra, Wilkes, Kenyon

Spectrograph: FAST

Grating: 300 Å, 3" slit, binby 4 Page: 6333

Date: 6/16/98 *except as noted* clear, moon

Number	Object	R.A.	Dec.	L/R	Exp	Comments
185	2M174936.4p	17:49	+21:17	#68	13m	star to E 29
186	COMP			↑		
187	N7469	23:03	+08:52	#6	2 1/2 m	star to E
188	COMP			↑		
189,190	ε And	23:33	+48:49	#12	1s, 20s	
191	COMP			↑		
192	TDP 284211	21:48	+28:37	#56	20s	airmass 1.00
193	COMP			↑		
194	HD 217086	22:54	+62:27	#56	3s	airmass 1.19
195	COMP			↑		
196-205	BIAS				0	
206-215	FLAT				6s	
216-225	BIAS				0	} binby 2
226-235	FLAT				12s	
236-240	FLAT				20s	} 1.1" slit, binby 4
241-245	sky				10s	
246-250	FLAT				20s	