

60 inch Telescope Log  
 Observer: B. Carter  
 PI: Kirshner, Wilkes, Carter  
 Spectrograph: FAST  
 Grating: 300A  
 Date: 6/18/98  
 P.A. 90°  
 Page: 6340  
clear

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS	<u>zenith</u>			0	binby 4 3" slit
11-20	BIAS				0	binby 2
21-30	FLAT				6s	binby 4
31-40	FLAT				12s	binby 2
41-50	FLAT				20s	binby 4 1.1" slit
51-55	DARK				15m	binby 4 3" slit
56-60	DARK				15m	binby 2
61-65	sky				1s	binby 4
66	COMP				6s	
67-71	sky				2s	} binby 2
72	COMP				12s	
73	H244	13:21	+36:23	#56	2m	
74	COMP			↑		
75-77	SN1998bu	10:46	+11:50	#2	5m	} binby 2
78	COMP			↑	12s	
79	H244	13:21	+36:23	#56	3m	
80	COMP			↑	12s	
81	SN1998cn	11:35	+70:32	#2	15m	} bright galaxy to E (NGC 373) - hopefully the SN is W!
82	COMP			↑	12s	
83	N4051	12:00	+44:48	#6	2m	binby 4
84	COMP			↑	6s	
85	Z 010049	13:24	+30:57	#75	4m	139
86	COMP			↑		
87	N 002961	13:24	+26:44	#75	4m	140
88	COMP			↑		
89	Z 007401	13:25	+31:37	#75	4m	141
90	COMP			↑		
91	A 000475	13:26	+26:28	#75	5m	142
92	COMP			↑		
93	Z 007402	13:26	+26:35	#75	6m	} 2 different objects! - gal (reduce them separately)
94	COMP			↑		

had to extract Z 007402 E without tracing. Z 007402 W has strong emission → could have appeared in Z 007402 E. need binby 2 for this one.

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Grating: 300 Å, 3" slit, kinby Page: 6341

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
95	Z 003485	13:26	+32:11	#75	7m	big fuzzy gal. 144
96	COMP			↑		
97	Z 013768	13:27	+30:58	#75	6m	145
98	COMP			↑		
99	Z 002684	13:27	+32:01	#75	4m	finding chart shows barred gal: 146
100	COMP			↑		<del>↑</del> airmass 1.08
101	Z 008595	13:27	+28:30	#75	3½ m	147
102	COMP			↑		
103	N 002271	13:27	+30:22	#75	4½ m	148
104	COMP			↑		
105	Z 002346	13:28	+32:01	#75	4m	big dust lane! (and it shows up in the profile too) 149
106	COMP			↑		
107	B 000229	13:28	+30:48	#75	9m	faint object, nothing to guide on. 150
108	COMP			↑		
109	N 002962	13:29	+29:46	#75	4m	151
110	COMP			↑		
111	Z 003486	13:29	+31:07	#75	3½ m	152
112	COMP			↑		
113	Z 002076	13:30	+31:37	#75	3m	153
114	COMP			↑		
115	Z 007403	13:30	+30:01	#75	7m	154
116	COMP			↑		
117	B 000179	13:32	+28:23	#75	4m	155
118	COMP			↑		
119	N 002963	13:34	+31:25	#75	10m	really faint! 500? stronger than Hα 156
120	COMP			↑		
121	Z 007404	13:34	+31:23	#75	5m	star to E 157
122	COMP			↑		
123	Z 013769	13:35	+26:25	#75	4m	158
124	COMP			↑		

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clear

Number	Object	R.A.	Dec.	L/R	Exp	Comments
125	Z 013770	13:35	+27:54	#75	4m	star to E 159
126	COMP			↑		
127	N 001361	13:36	+27:14	#75	3½m	160
128	COMP			↑		
129	Z 004011	13:37	+27:25	#75	4m	161
130	COMP			↑		
131	Z 013771	13:38	+27:46	#75	4m	162
132	COMP			↑		
133	N 000875	13:38	+26:44	#75	3m	163
134	COMP			↑		
135	N 001084	13:38	+31:16	#75	3m	164
136	COMP			↑		
137	Z 006266	13:38	+31:21	#75	2½m	165
138	COMP			↑		
139	Z 008596	13:39	+30:59	#75	2½m	166
140	COMP			↑		
141	Z 010050	13:39	+31:12	#75	5m	167
142	COMP			↑		
143	Z 013772	13:39	+31:17	#75	3m	168
144	COMP			↑		
145	Z 010051	13:39	+27:55	#75	4m	169
146	COMP			↑		
147	Z 001657	13:39	+28:24	#75	4m	171
148	COMP			↑		
149	Z 011711	13:39	+30:06	#75	4m	172
150	COMP			↑		
151	Z 010052	13:41	+30:22	#75	4m	Seyfert? 173
152	COMP			↑		
153	Z 011712	13:41	+30:07	#75	3½m	174
154	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>			
Observer: <u>B. Carter</u>			Grating: <u>300 Å, 3" slit, binby4</u> Page: <u>6343</u>			
PI: <u>Carter, Wilkes, Kenyon</u>			Date: <u>6/18/98</u> <span style="float: right;"><u>clear</u></span>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
155	Z006267	13:41	+27:00	#75	4m	175
156	COMP			↑		
157	Z010053	13:41	+26:32	#75	6m	faint star to E? 176
158	COMP			↑		
159	Z013773	13:42	+30:14	#75	4m	177
160	COMP			↑		
161	Z011714	13:42	+26:29	#75	5m	178
162	COMP			↑		
163	Z011715	13:42	+31:31	#75	4m	179
164	COMP			↑		
165	Z011716	13:42	+29:57	#75	5m	180
166	COMP			↑		
167	Z007406	13:42	+29:52	#75	3m	181
168	COMP			↑		
169	Z003013	13:43	+30:20	#75	4m	182
170	COMP			↑		
171	N000876	13:43	+30:04	#75	4m	183
172	COMP			↑		
173	Z013774	13:44	+30:19	#75	5m	184
174	COMP			↑		
175	MRK279	13:51	+69:33	#6	3m	
176	COMP			↑		
177	N5548	14:15	+25:22	#6	3m	
178	COMP			↑		
179,180	AGDra	16:01	+66:48	#12	1s, 20s	
181	COMP			↑		
182	Z011745	16:06	+27:51	#75	5m	374
183	COMP			↑		
184	Z010076	16:06	+31:53	#75	4m	376
185	COMP			↑		

60 inch Telescope Log

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clear

Number	Object	R.A.	Dec.	L/R	Exp	Comments
186	N 002277	16:07	+30:31	#75	3½m	372
187	COMP			↑		
188	N 000503	16:07	+28:03	#75	4m	376
189	COMP			↑		
190	N 002278	16:09	+30:27	#75	4m	379
191	COMP			↑		
192	Z 010077	16:10	+31:47	#75	6m	underexposed 380
193	COMP			↑		
194	N 000700	16:11	+26:55	#75	3½m	381
195	COMP			↑		
196	N 002982	16:12	+28:28	#75	7m	382
197	COMP			↑		
198	N 001364W	16:12	+28:17	#75	5m	<del>underexposed. at least it has emission!</del> 383
199	N 001364E	"	"	"	10m	<del>target is E, in this fr</del>
200	COMP			↑		
201	N 000883	16:12	+27:59	#75	4m	I'll bet these guys are an interacting pair! 384
202	COMP			↑		
203	Z 013806	16:13	+30:49	#75	4m	385
204	COMP			↑		
205	Z 011747	16:14	+28:29	#75	4m	386
206	COMP			↑		
207	N 002983	16:14	+29:58	#75	8m	387
208	COMP			↑		
209	Z 010079	16:14	+26:33	#75	5m	faint star to W? 388
210	COMP			↑		
211	N 002984	16:15	+31:04	#75	10m	faint spiral (slightly underexposed) 389
212	COMP			↑		
213, 214	HD 192281	20:12	+40:16	#56	2s	
215	COMP			↑		
216	Cyg OB2 no 9	20:31	+41:04	#56	20s	← rt shell went into infinite loop; had to restart it, then do this comp.
217	COMP			↑		

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Observer: <u>B. Carter</u>				Grating: <u>300 Å, binby 4, 3" slit</u> Page: <u>6345</u>		
PI: <u>McClintock, Kenyon, Wilkes</u>				Date: <u>6/18/98</u> <small>except as noted</small>		
Number	Object	R. A.	Dec.	L/R	Exp	Comments
218	COMP			↓	8s	1.1" slit
219, 220	4U1907p09	19:07	+09:44	#77	15m	} (star to far E)
221	COMP			↑	8s	
222	HD230579	19:01	+11:01	#77	15s	
223	COMP			↑	8s	↓
224, 225	BDp 284211	21:48	+28:37	#56	20s	3" slit
226	COMP			↑		
227, 228	CICyg	19:50	+35:41	#12	1s, 30s	
229	COMP			↑		
230	MRK509	20:41	-10:54	#6	3m	sky getting bright
231	COMP			↑		
232	N7331	22:34	+34:09	#57	5m	
233	COMP			↑		
234	N7469	22:03	+08:52	#6	2½ m	
235	COMP			↑		
236, 237	ε And	23:33	+48:49	#12	1s, 30s	
238	COMP			↑		
239-243	sky	zenith			10s	
244	COMP			↑		
245-249	sky				10s	} binby 2
250	COMP			↑	12s	
251-260	BIAS				0	
261-270	FLAT				6s	
271-280	BIAS				0	} binby 2
281-290	FLAT				12s	
291-300	FLAT	binby 2			20s	1.1" slit, binby 4