

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>57244</u>		
Observer: <u>P. Bertine</u>		Grating: <u>3000</u>				
PI: <u>JPH</u>		Date: <u>4/11/99</u>				
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	
11-20	BIAS				0s	
21-30	FLAT				7s	circus to S
31-40	BIAS				0s	windy
41-50	FLAT				14s	
51-55	sky			57	2s	Storm supposed to
56	WMP			↑	5s	move in later
57-59	HDS2971	06:57	+27	57	4s	
60	WMP			↑		
61-62	N33779	10:45	+12:50	57	90s	
63	WMP			↑		
64	ZM065252.7	06:52	+27:13	68	3m	
65	WMP			↑		
66	ZM062848.2	06:28	+24:32	68	5m	* to E POOR
67	WMP			↑		
68	ZM062753.1	06:27	+24:47	68	6m	
69	WMP			↑		
70	BluGem	06:03	+27:41	100	6m	
71	WMP			↑		
72	ZM064939.6	06:49	+25:40	68	5m	• - gal star bin by 2
73	WMP			↑		
74	ZM065201.5	06:52	+27:07	68	5m	pec? #284
75	WMP			↑		
76	ZM065412.0	06:54	+28:19	68	5m	
77	WMP			↑		
78	ZM065845.7	06:58	+27:24	68	4m	
79	WMP			↑		
80	SN1999be	08:23	+18:18	2	20m	
81	WMP			↑		

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 PI: JPM

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
82	ZM063136.8	06:31	+25:20	68	5m	
83	WMP			↑		
84	ZM065034.9	06:50	+24:52	68	5m	
85	WMP			↑		
86	ZM065120.9	06:51	+27:58	68	5m	
87	WMP			↑		
88	ZM063720.9	06:37	+24:40	68	1m	plen. neb. ! + to E
89	WMP			↑		
90	ZM063257.3	06:32	+26:06	68	10m	WK
91	WMP			↑		
92	ZM065344.7	06:53	+26:47	68	10m	3/4 * to E
93	WMP			↑		
94	ZM060207.3	06:02	+16:23	68	4m	
95	WMP			↑		
96	ZM060228.8	06:02	+20:30	68	3m	
97	WMP			↑		
98	ZM080259.7	08:02	+15:08	68	5m	
99	WMP			↑		
100	ZM061206.5	06:12	+16:59	68	6m	
101	WMP			↑		
102	ZM061125	06:11	+14:39	68	10m	
103	WMP			↑		
104	ZM080508.6	08:05	+20:15	68	10m	
105	WMP			↑		
106	ZM080442.2	08:04	+18:46	68	10m	bot star off to W
107	WMP			↑		
108	ZM080459.7	08:04	+14:48	68	8m	
109	WMP			↑		
110	ZM080707.8	08:07	+17:20	68	7m	
111	WMP			↑		

60 inch Telescope Log			Spectrograph: <u>FBI</u>		Page: <u>7246</u>	
Observer: <u>PB</u>			Grating: <u>202</u>		Date: <u>4/11/99</u>	
PI: <u>JPH</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
112	ZM080815.8	08:08	+20:50	68	7m	
113	COMP			T		
114	ZM080832.6	08:08	+19:12	68	6m	
115	COMP			T		
116	ZM080955.3	08:09	+16:44	68	6m	
117	COMP			T		
118	N3227	10:20	+20:07	6	3m	
119	COMP			T		(ok)
120	MRK421	11:01	+38:28	6	4m	
121	COMP			T		
122	Fcige34	10:36	+43	56	90s	
123	COMP			T		
124	N4151	12:08	+39:41	6	30s	
125	COMP			T		
126	N4051	12:00	+44:48	6	2m	
127	COMP			T		
128	SNR99an	12:01	+14:06	2	15m	
129	COMP			T		
130	A1644DS08Y	12:56	+17:02	81	15m	
131	COMP			T		
132	A1644DS111	12:52	-16:52	81	14m	
133	COMP			T		
134	A1644DS119	12:57	-16:47	81	Man	
135	COMP			T		
136	H204	13:21	+36:23	56	2m	PA=90
137	COMP			T		
138	ZM121506.0	12:15	+18:53	68	6m	
139	COMP			T		
140	ZM122104.6	12:24	+16:19	68	5m	
141	COMP			T		

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
142	ZM 12314.5	12:31	+23:05	68	5m	
143	COMP			f		
144	ZM 12314.2	12:31	+23:29	68	4m	
145	COMP			f		
146	ZM 12320.7	12:32	+16:48	68	4m	
147	COMP			f		
148	ZM 12325.0	12:32	+16:42	68	4m	comp to W
149	COMP			f		
150	ZM 12356.1	12:38	+15:39	68	4m	
151	COMP			f		
152	ZM 12385.0	12:38	+12:36	68	11m	
153	COMP			f		
154	ZM 12390.2	12:39	+16:48	68	5m	Scomp
155	COMP			f		
156	ZM 12390.8	12:39	+15:21	68	5m	
157	COMP			f		
158	K016	13:00	+28:02	64	4m	
159	COMP			f		
160	K017	13:00	+28:03	64	5m	
161	COMP			f		
162	K018	13:00	+27:55	64	4m	* to W
163	COMP			f		
164	K019	13:00	+27:58	64	3m	
165	COMP			f		
166	K020	13:00	+28:05	64	3m	
167	COMP			f		
168	K021	13:00	+28:09	64	4m	
169	COMP			f		
170	K022	13:00	+28:02	64	3m	
171	COMP			f		

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
172	K023	13:00	+27:47	69	3m	
173	WMP			f		
174	MKW12-i 040	13:57	+49:24	35	20m	high ca nice spectrum
175	WMP			f		
176	ZM1328453	13:28	+25:05	68	4m	
177	WMP			f		
178	ZM132909.9	13:29	+25:45	68	5m	
179	WMP			f		
180	ZM132922.1	13:29	+13:52	68	5m	
181	WMP			f		
182	ZM133122.7	13:31	+13:40	68	6m	* to E
183	WMP			f		
184	ZM1332136.1	13:31	+13:35	68	10m	
185	WMP			f		
186	ZM133154.8	13:31	+13:28	68	9m	
187	WMP			f		
188	ZM133225.8	13:32	+12:34	68	7m	
189	WMP			f		
190	ZM133110.1	13:34	+13:49	68	7m	
191	WMP			f		
192	ZM133626.9	13:36	+16:05	68	6m	
193	WMP			f		
194	ZM133844.8	13:38	+15:25	68	6m	
195	WMP			f		
196	ZM134033.3	13:40	+18:31	68	6m	
197	WMP			f		
198	ZM135147.2	13:51	+19:29	68	5m	
199	WMP			f		
200	ZM135217.3	13:52	+21:04	68	7m	
201	WMP			f		

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
202	ZM125909.4	13:59	+16:50	68	7m	
203	COMP			↑		
204	N5548	14:13	+25:22	6	3m	
205	COMP			↑		
206	N5846	15:03	+01:47	57	90s	
208	COMP			↑		
209	ZM150331.5	15:00	+47:10	68	11m	
210	COMP			↑		
211	ZM1503331.5	15:03	+20:39	68	5m	
212	COMP			↑		
213	ZM150459.1	15:04	+26:25	68	5m	
214	COMP			↑		
215	ZM150538.5	15:05	+23:23	68	6m	
216	COMP			↑		a few clouds.
217	ZM151030	15:11	+20:24	68	5m	☉ down.
218	COMP			↑		
219-228	BIAS				0s	
229-238	FLAT				7s	
239-248	BIAS				0s	
249-258	FLAT				14s	
259-268	DARK				15m	