

60 inch Telescope Log

Observer: P. Berlin  
 PI: And.

Spectrograph: FAST

Grating: 300L

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Date: 4/22/99

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-10	DARK				15s	
11-20	DARK				15m	Windy
21-30	BIAS				0s	Very hazy.
31-40	FLAT				7s	
41-50	BIAS				0s	
51-60	FLAT				14s	
61-65	sky			S6	2s	
66	COMP			T	5s	
67-68	Foige 39	10:36	+43:21	S6	90s	PA=10
69	COMP			T		
70-71	N3377	10:45	+14:34	S7	90s	
72	COMP			T		
73	N3229	10:20	+20:07	6	3m	
74	COMP			T		
75	MRK 421	11:01	+78:28	6	4m	
76	COMP			T		
77	Babcock	06:03	+27:41	100	6m	
78	COMP			T		
79	N4051	12:00	+44:48	6	2m	
80	COMP			T		
81	N4151	12:08	+39	6	30s	
82	COMP			T		
83	Mrgh 171.339	12:05	+20:14	S9	3m	
84	COMP			T		
85	.376	12:05	+71:10	S9	6m	
86	COMP			T		
87	.742	12:05	+19:43	S9	6m	
88	COMP			T		
89	.357	12:06	+20:54	S4	6m	
90	COMP			T		

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
91	NGC 6177.358	12:06	+21:43	S9	6m	
92	COMP			T		
93	.365	12:06	+19:14	S9	10m	
94	COMP			T		
95	.367	12:06	+20:49	S9	4m	
96	COMP			T		
97	.368	12:06	+19:50	S9	5m	
98	COMP			T		
99	.371	12:07	+20:49	S9	5m	
100	COMP			T		
101	.372	12:07	+20:34	S9	6m	
102	COMP			T		
103	.373	12:07	+20:22	S9	5m	
104	COMP			T		
105	.374	12:07	+21:00	S9	6m	* to E
106	COMP			T		
107	.375	12:07	+19:49	S9	6m	* to W
108	COMP			T		
109	SN1998S	11:46	+40	Z	20m	no.
110	COMP			T		
111	NGC 6177.381	12:09	+20:10	S9	5m	
112	COMP			T		
113	.264	11:59	+20:33	S9	10m	
114	COMP			T		
115	.265	11:59	+20:39	S9	7m	
116	COMP			T		
117	.272	12:01	+17:47	S9	6m	
118	COMP			T		
119	.283	12:02	+20:34	S9	12m	
120	COMP			T		

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
121	AWM3-i.060	14:24	+25:03	35	15m	
122	COMP			r		
123	.061	14:25	+26:41	35	15m	
124	COMP			r		
125	.062	14:22	+26:11	35	10m	
126	COMP			r		
127	.063	14:31	+25:41	35	15m	high cz; out of cluster
128	COMP			r		not worth redo
129	.065	14:27	+24:41	35	10m	
130	COMP			r		
131	.066	14:25	+26:30	35	15m	
132	COMP			r		Seemg poor
133	.069	14:21	+27:13	35	5m	
134	COMP			r		
135	.070	14:24	+25:41	35	15m	
136	COMP			r		
137	.071	14:23	+24:41	35	15m	
138	COMP			r		
139	N5548	14:25	+25:22	6	3m	
140	COMP			r		
141	MRK25A	13:51	+6:49	6	3m	
142	COMP			r		
143	a2199.46	16:21	+42:45	78	20m	tilt=7450 red.
144	COMP			r		
145	2M160533	16:05	+18:49	78	20m	
146	COMP			r		
147	N5560	15:05	+55:57	78	7m	Just lane
148	COMP			r		

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 PI: John Ken

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
147	H244	13:21	+36	78	4m	PA=88
150	COMP			↑		
151-160	FLAT			78	146	n.e.
161	ZM1506552.4	15:08	+20:41	68	12m	tilt=610.0 normal setup
162	COMP			↑		
163	ZM151338.6	15:13	+20:29	68	6m	
164	COMP			↑		
165	ZM151552.7	15:15	+18:38	68	10m	
166	COMP			↑		
167	ZM151641.5	15:16	+20:09	68	5m	
168	COMP			↑		
169	ZM151841.0	15:18	+23:76	68	8m	redo from 4/18/99
170	COMP			↑		
171	ZM151940.6	15:19	+22:25	68	7m	
172	COMP			↑		
173	ZM152112.0	15:21	+21:15	68	8m	
174	COMP			↑		
175	ZM152148.6	15:21	+20:45	68	8m	
176	COMP			↑		
177	SN1999ae	16:07	+67:58	2	20m	PA=35 seeing 3"
178	COMP			↑		
179	a2199c031	16:14	+37:23	64	7m	
180	COMP			↑		
181	.033	16:14	+37:03	64	7m	
182	COMP			↑		
183	.034	16:14	+37:51	64	6m	
184	COMP			↑		
185	.035	16:14	+37:16	64	12m	
186	COMP			↑		

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
187	221996.036	16:15	+39:01	64	7m	
188	COMP			f		
189	038	16:15	+37:41	64	6m	
190	COMP			r		
191	H12192281	120:10	+40:09	56	4s	PA=100
191	COMP			r		
195-204	BIAS				0s	clear, cold
205-214	FLAT				9s	humid, + hazy
215-224	BIAS				0s	→ Dawn
225-234	FLAT				14s	
						★ End of FAST Run ★