

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5850</u>	
Observer: <u>MADER</u>			Grating: <u>300-L</u>			
PI: <u>KENYON, WILKES, BARTON</u>			Date: <u>12/04/97</u>			
Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-10	BIAS	-	-		-	BIN X 2
11-20	FLAT	-	-		12	"
21-30	FLAT	-	-		6	BIN X 4
31-40	BIAS	-	-		-	"
41-45	DARK	-	-		900	"
46-50	SKY				2	
51	COMP			↑		
52-53	z And	23:33:40	48:49:00	12	0.5, 12	
54	COMP			↑		
55	N7469	23:03:15	08:52:25	6	150	BRIGHT ONE
56	COMP			↑		
57	MRK 509	20:41:20	-10:54:18	6	180	
58	COMP			↑		
59-63	HD 192281	20:10:47	40:07:01	50	4	
64	COMP			↑		
65-66	CI Cyg	19:50:12	35:41:04	12	1, 30	
67	COMP			↑		
68	segal_227	20:48:17	16:43:15	60	720	$\theta = 40$ , $H\alpha = 6700 \text{ \AA}$
69	COMP			↑		
70	segal_249	22:15:19	37:18:05	60	540	PA = $45^\circ$
71	COMP			↑		
72	segal_255	22:23:01	30:55:30	60	360	PA = $45^\circ$
73	COMP			↑		
74	segal_263	22:57:35	19:46:58	60	720	PA = $90^\circ$
75	COMP			↑		
76	segal_269	23:00:10	31:22:30	60	300	
77	COMP			↑		
78	segal_270	23:03:10	08:52:25	60	300	$l = 40$
79	COMP			↑		

60 inch Telescope Log				Spectrograph: <u>FAST</u>		
Observer: <u>MADER</u>				Grating: <u>300L</u>		Page: <u>5851</u>
PI: <u>BARTON, WILKES, KENTON</u>				Date: <u>12/04/97</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
80	sogal-272	23:14:35	04:29:54	60	360	PA=85°
81	COMP			↑		
82	sogal-273	23:14:43	04:32:02	60	240	PA=90°
83	COMP			↑		
84	sogal-275	23:15:16	18:57:42	60	720	
85	COMP			↑		
86	sogal-284	23:21:33	27:07:05	60	1080	PA=85°
87	COMP			↑		
88	sogal-303	23:51:23	20:05:47	60	300	PA=90°
89	COMP			↑		
90	sogal-304	23:51:25	20:06:45	60	300	PA=82°
91	COMP			↑		
92	sogal-311	00:01:20	13:06:39	60	180	PA=90°
93	COMP			↑		
94	sogal-296	23:41:29	03:44:24	60	300	
95	COMP			↑		
96	MRK335	00:03:45	19:55:27	6	180	
97	COMP			↑		
98-99	AX Per	01:36:23	54:15:03	12	370	
100	COMP			↑		
101	sogal-143	01:59:20	19:00:30	60	240	REDO FROM 12/03
102	COMP			↑		
103	sogal-123	01:52:40	36:10:17	60	240	REDO FROM 12/03
104	COMP			↑		
105	sogal-125	01:52:46	36:09:07	60	360	REDO FROM 12/03
106	COMP			↑		
107	sogal-090	01:25:44	-01:22:47	60	240	
108	COMP			↑		
109	sogal-088	01:25:18	-01:31:04	60	600	PA=-45°
110	COMP			↑		

60 inch Telescope Log				Spectrograph: <u>FAST</u>		
Observer: <u>MADER</u>				Grating: <u>300.8</u>		Page: <u>585Z</u>
PI: <u>BARTON, KENYON, GELLER</u>				Date: <u>12/04/97</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
111	Sagal-098	01:26:19	34:45:14	60	240	PA = 45°
112	COMP			↑		
113	Sagal-099	01:26:22	34:42:11	60	240	PA = 90°
114	COMP			↑		
115	Sagal-100	01:26:31	34:40:32	60	540	PA = <del>90</del> - 38°
116	COMP			↑		
117-118	DR Tau	04:27:05	26:06:16	12	10,90	PA = 90°
119	COMP			↑		
120-121	DL Tau	04:33:39	25:20:37	12	10,150	
122	COMP			↑		
123-124	DR Tau	04:47:06	16:58:43	12	10,75	
125	COMP			↑		
126	N1700	04:54:28	-04:56:30	57	180	
127	COMP			↑		
128	H2 14	04:38:16	10:53:57	56	180	
129	COMP			↑		
130	528.094278	01:55:27	09:32:47	55	480	REDO FROM 12/03
131	COMP			↑		
132	528.096200	01:40:17	09:42:07	55	720	REDO FROM 12/03
133	COMP			↑		
134	528.087655	01:42:39	09:05:53	55	720	REDO FROM 12/03
135	COMP			↑		
136	528.077796	01:53:37	08:21:38	55	300	REDO FROM 12/03
137	COMP			↑		
138	528.081104	01:33:34	08:37:31	55	300	BRIGHTER ONE
139	COMP			↑		
140	528.076053	01:40:01	08:16:01	55	300	
141	COMP			↑		
142	528.081062	01:55:43	08:35:22	55	300	
143	COMP			↑		

60 inch Telescope Log				Spectrograph: <u>FAST</u>		
Observer: <u>MADER</u>				Grating: <u>300R</u>		Page: <u>5853</u>
PI: <u>KIRSHNER, BARTON, GELLER, MUMFRA</u>				Date: <u>12/04/97</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
144	SN1997do	07:26:43	47:05:30	2	900	BIN X 2
145	COMP			↑		
146	SNugc4107	07:57:03	49:33:40	2	1200	"
147	COMP			↑		
148-149	Hiltner 600	06:42:37	02:11:25	50	30	"
150	COMP			↑		
151	sogal_131	01:55:21	36:18:25	60	300	BIN X 4 PA=45°
152	COMP			↑		
153	sogal_1166	02:21:29	39:22:31	60	780	PA=45°
154	COMP			↑		
155	sogal_179	02:28:13	19:35:00	60	540	PA=45°
156	COMP			↑		
157	sogal_127	01:54:54	36:55:04	60	300	PA=90°
158	COMP			↑		
159	sogal_129	01:55:02	36:55:10	60	1080	
160	COMP			↑		
161	sogal_128	01:54:59	36:52:11	60	600	
162	COMP			↑		
163	xe470.009922	02:29:46	10:11:55	55	480	
164	COMP			↑		
165	24032555.4p285732	03:25:55	28:57:32	68	900	
166	COMP			↑		
167	N001259	08:23:50	11:33:01	60	240	REDO FROM 12/03
168	COMP			↑		
169	N006167	08:27:06	21:38:43	60	180	REDO FROM 12/03
170	COMP			↑		
171	N002213	08:36:06	25:36:38	60	300	REDO FROM 12/03
172	COMP			↑		
173	N002216	08:39:11	26:13:13	60	240	REDO FROM 12/03
174	COMP			↑		

60 inch Telescope log

Spectrograph: FAST

Observer: MADER

Grating: 300L

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PI: GELLER, HUCHRA, MAHDAYI

Date: 12/04/97

Number	Object	R. A.	Dec.	L/R	Exp	Comments
175	2003460	08:46:49	28:10:17	60	180	REDO FROM 12/03
176	COMP			↑		
177	2001162	08:57:36	03:05:26	60	180	REDO FROM 12/03
178	COMP			↑		
179	2004425	08:43:16	13:05:10	60	300	PA = 0°
180	COMP			↑		
181	N000823	09:01:25	10:12:01	60	240	PA = 90°
182	COMP			↑		
183	2005218	09:04:37	13:33:15	60	240	PA = 48°
184	COMP			↑		
185	2000691	09:09:01	53:50:28	60	180	PA = 90°
186	COMP			↑		
187	N001079	09:11:31	28:49:26	60	180	
188	COMP			↑		
189	2M08483.9p075948	08:48:43	09:59:48	68	480	REDO FROM 12/03
190	COMP			↑		
191	2M08481.1pN3133	08:48:42	10:31:33	68	240	REDO FROM 12/03
192	COMP			↑		
193	2M08485.2p110655	08:48:45	11:06:55	68	540	REDO FROM 12/03
194	COMP			↑		
195	2M08485.3p070120	08:48:51	09:01:20	68	420	REDO FROM 12/03
196	COMP			↑		BRIGHT ONE
197	2M08485.7p090947	08:48:56	09:09:47	68	600	REDO FROM 12/03
198	COMP			↑		
199	2M08494.2p110412	08:49:41	11:04:12	68	300	REDO FROM 12/03
200	COMP			↑		
201	2M08493.6p090822	08:49:36	09:08:22	68	300	PA = 70°
202	COMP			↑		
203	1gh008.04	09:12:45	29:25:17	68	240	PA = 90° REDO FROM 12/03
204	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5855</u>	
Observer: <u>MADER</u>			Grating: <u>300L</u>		Date: <u>12/04/97</u>	
PI: <u>MAHDAVI</u>						
Number	Object	R. A.	Dec.	L/R	Exp	Comments
205	rg1008.05	09:12:51	30:12:44	59	180	REDO FROM 12/03
206	COMP			↑		
209	rg1001.10	08:54:30	36:07:03	59	300	PA = 10°
210	COMP			↑		
211	rg1008.02	09:11:54	29:34:11	59	420	PA = 10°
212	COMP			↑		
213	rg1001.11	08:54:32	36:30:33	59	300	PA = 0°
214	COMP			↑		
215	rg1008.06	09:13:01	29:32:16	59	480	PA = 10°
216	COMP			↑		
217	rg1008.09	09:13:32	28:57:08	59	240	PA = -30°
218	COMP			↑		
219	rg1008.10	09:13:33	29:59:59	59	480	PA = 80°
220	COMP			↑		
221	rg1008.13	09:13:37	29:59:57	59	240	PA = 0° HEADER WAS rg1008.10
222	COMP			↑		
223	rg1008.18	09:14:35	30:08:25	59	180	PA = 10°
224	COMP			↑		
225	rg1008.17	09:14:35	29:49:31	59	240	PA = 90° REDO FROM 12/03
226	COMP			↑		
227-236	BIAS	-	-		-	BIN X 4
237-246	FLAT	-	-		6	"
247-256	FLAT	-	-		12	BIN X 2
257-266	BIAS	-	-		-	"
267-271	DARK	-	-		900	"