

*Fax to Susan Tokarz pg 1 of 4*

*★ Start of FAST Run ★*

60 inch Telescope Log  
 Observer: P. Berlind  
 PI: Wilkesy Kirshner  
 Spectrograph: FAST  
 Grating: 300, 3" slit, bin by 4  
 Date: 4/28/97  
 Page: 5401

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-20	BIAS			0	0s	
21-40	FLAT			0	6s	
41-50	BIAS			0	0s	bin by 2
51-60	FLAT			0	12s	bin by 2
61-65	sky	zenith		57	2s	
66	COMP			↑	6s	new HENEAR lamp
67-72	HDS2971	06:57		57	5s	
73	COMP			↑		
74-77	AGK2#3928			57	5s	
78	COMP			↑		clouds moving through
79-80	Fery34	10:36	+43:21	56	2m	
81	COMP			↑		
82-83	N3115	10:02	-07:28	57	3m	
84	COMP			↑		
85-86	N3377	10:45	+4:14	57	3m	
87	COMP			↑		
88	N4051	12:00	+44:48	6	6m	
89	COMP			↑		
90	N4258	12:16	+47:34	6	3m	
91	COMP			↑		
92	N4151	12:08	+37:41	6	40s	
93	COMP			↑		
94	MRK421	11:01	+38:28	6	5m	
95	COMP			↑		
96-97	Fery34	10:36	+43:21	56	2m	much nicer sky
98	COMP			↑		
99, 01	SN1997bg	10:17	+73:23	2	15m	bin by 2
100, 102	COMP			↑	12s	focus
103	IC19090503	12:19	+05:03	1	5m	
104	COMP			↑		

## 60 inch Telescope Log

Observer: PBPI: Geller & KirshnerSpectrograph: FASTGrating: 302Date: 4/28/97Page: 5402

Number	Object	R.A.	Dec.	L/R	Exp	Comments
105	12223p0702	12:22	+07:02	1	8m	
106	COMP			↑		
107	I3457	12:29	+12:52	1	10m	LSB
108	COMP			↑		
109	I3492E	12:30	+13:08	1	8m	there is no sup * ; pec
110	I3492W	12:30	+13:08	1	8m	
111	COMP			↑		
112	N001535	12:32	+08:02	60	12m	LSB
113	COMP			↑		
114	Z004857N	12:35	+07:50	60	3m	N
115	Z004837S	12:35	+07:50	60	5m	S
116	COMP			↑		
117	Z012876EW	12:34	+02:28	60	11m	bin by 2 E+W comps
118	COMP			↑		em W comp
119,121	SN9976p	12:46	-11:38	2	15m	bin by 2
120,122	COMP			↑		
123,125	SN9976r	13:20	-22:02	2	15m	bin by 2
124,126	COMP			↑		
127	SN9976r host	13:20	-22:02	2	12m	ESO 576-40 em
128	COMP			↑		
129	Z000700S	12:36	+11:14	60	2m	em
130	Z000700N	12:36	+11:14	60	3m	em
131	COMP			↑		
132	N002011	12:40	+08:10	60	10m	S comp
133	COMP			↑		
134	Z006764	12:35	-0:12	60	4m	em tt
135	Z006764	12:35	-0:12	60	10m	wh em
136	COMP			↑		
137	Z009383S	12:42	+01:20	60	8m	em; HI region em also @ row 51
138	Z009383N	12:42	+01:20	60	5m	

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>5103</u>	
Observer: <u>PB</u>			Grating: <u>302</u>			
PI: <u>Gretter</u>			Date: <u>4/28/97</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
139	COMP			↑		
140	ZO11110S	12:43	+03:33	60	5m	
141	ZO11110N	12:43	+03:33	60	5m	em
142	COMP			↑		
143	ZO11679 N	12:40	+26:31	60	5m	em +
144	ZO11679 S	12:40	+26:31	60	6m	
145	ZO11679 W	12:40	+26:31	60	5m	
146	COMP			↑		
147	B5006162	12:32	+12:46	60	7m	VLSB - nothing - shadow
148	COMP			↑		
149	N5596	14:45	+25:22	6	3m	
150	COMP			↑		clouds
151	MRK279	13:51	+69:33	6	2m	
152	COMP			↑		
153-S4	B2p33062	15:50	+33:05	56	1m	
155	COMP			↑		circus
156	Z009103	13:60	+28:21	60	4m	
157	COMP			↑		
158	Z007575W	13:01	+48:03	60	5m	em +
159	Z007575E	13:01	+48:03	60	5m	em +
160	COMP			↑		
161	Z009104	13:01	+27:48	60	3m	
162	COMP			↑		
163	Z004008	13:01	+27:50	60	3m	
164	COMP			↑		increasing clouds
165	Z004616N	13:01	+29:02	60	5m	seemy worse
166	Z004616S	13:01	+29:02	60	6m	
167	COMP			↑		
168	Z013204E	13:55	+11:21	60	6m	
169	Z013204W	13:55	+11:21	60	9m	

60 inch Telescope Log  
 Observer: PJ  
 PI: Geller/Hoch  
 Spectrograph: FAST  
 Grating: 3M  
 Date: 4/28/97  
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
170	COMP			↑		
171	Z013582S	13:55	+12:01	60	4m	
172	Z013582N			60	3m	
173	COMP			↑		
174	Z00489N	13:56	+17:30	60	4m	
175	Z00489S	13:56	+17:30	60	6m	em!
176	COMP			↑		
177	A000476	13:57	+28:47	60	8m	em +
178	COMP			↑		
179	Z004637	13:58	+07:27	60	8m	em
180	COMP			↑		
181	15049 p0050	15:01	+10:50	1	6m	em
182	COMP			↑		
183	15328 p0718	15:32	+07:18	1	8m	em
184	COMP			↑		
185	15558 p0435	15:32	+04:35	1	8m	± on slit
186	COMP			↑		more clouds
187	16282 p0608	16:28	+06:08	1	10m	
188	COMP			↑		
189	N001322S	16:01	+15:38	60	4m	
190	N001322N	16:01	+15:38	60	8m	wk em
191	COMP			↑		
192	Z013446	16:02	+15:53	60	8m	em
193	COMP			↓		
194	Z00969S	16:02	+15:55	60	4m	circus all over & down
195	Z00969N	16:02	+15:55	60	4m	
196	Z005329	16:02	+15:58	60	4m	
197	COMP			↑		
198	Z01145Z	16:02	+16:25	60	5m	redo
199	COMP			↑		

200-209 BIAS 0 0s  
 210-219 FLAT 0 6s  
 220-229 BIAS 0 0s  
 230-239 FLAT 0 12s  
 240-249 DARK 0 15m

bin 2  
bin 2