

60 inch Telescope Log			Spectrograph: <u>FAST</u>			
Observer: <u>PB</u>			Grating: <u>300L; 3" slit; binby4</u>		Page: <u>4305</u>	
PI: <u>Geller/Kirshner</u>			Date: <u>1/14/96</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS			0	0s	
11-20	FLAT			0	6s	
21-30	BIAS			2	0s	binby2
31-40	FLAT			2	12s	binby2
41-45	sky	Zenith		0	2s	
46	COMP			↑		
47-51	HD4744	00:47	+30:10	0	5s	def + trl NE*
52	COMP			↑		
53-55	M32	00:40	+40:35	0	30s	clouds in the west
56	COMP			↑		windy - 20-25 mph
57-59	HD217086	22:54	+62:27	0	5s	
60	COMP			↑		
61	MRK 335	00:03	+19:55	6	90s	
62	COMP			↑		
63,64	158m213	00:40	+40:50	0	4m	M31 glob.
65	COMP			↑		
66	S22.068584	23:15:46	+13:17	3	12m	
67	COMP			↑		
68	S22.068584	23:12:35	+13:16:76	3	15m	H <sub>α</sub>
69	COMP			↑		
70	S22.069305	23:21	+13:18	3	15m	H <sub>α</sub>
71	COMP			↑		
72	S22.070605	23:23	+13:22	3	10m	
73	COMP			↑		
74	S22.071945	23:09:11	+13:27	3	15m	USB finishes the plate!
75	COMP			↑		
76,78	SN1995ak	02:45:48	+03:13:50	2	30m	x2 binby2
77,79	COMP			↑		
80	470.033916	02:29:	+11:50	3	10m	binby2 + separate comps
81	COMP			↑		H <sub>α</sub> <del>HI region?</del>

bin 6 + 198  
 flat 209 + 242  
 1.167  
 89.1

*[Handwritten signature]*

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>4306</u>
Observer: <u>PRB</u>				Grating: <u>300L</u>		
PI: <u>Geller/Kirshner</u>				Date: <u>1/14/86</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
82	470.032463	02:34	+11:43	3	10m	
83	COMP			↑		
84	470.032133	02:34:54	+11:42	3	8m	
85	COMP			↑		
86	470.031723	02:28	+11:40	3	7m	
87	COMP			↑		
88	470.02053	02:22	+11:25	3	8m	H <sub>α</sub>
89	COMP			↑		
90,92,94	SNR956d	04:45	+11:04	2	15m	*3 binlog 2
91,93,95	COMP			↑		
96,97	Hiltner 600	06:42	+02:11	0	1m	
98	COMP			↑		
99	470.056674	02:28-05	+12:01:26	3	7m	
100	COMP			↑		
101	470.055186	02:44	+11:53	3	8m	
102	COMP			↑		
103	470.035915	02:42	+11:56	3	10m	H <sub>α</sub>
104	COMP			↑		
105	470.057167	02:41	+12:02	3	7m	
106	COMP			↑		110, 112, 113, 114
107	07469p2745	07:46	+27:45	1	8m	H <sub>α</sub>
108	COMP			↑		
109	07470p2745	07:47	+27:45	1	5m	
110	COMP			↑		
111	07477p4827	07:47	+48:26	1	5m	
112	COMP			↑		
113	07469p4123	07:46	+41:23	1	10m	
114	COMP			↑		
115	07464p4408	07:46	+44:08	1	10m	H <sub>α</sub>
116	COMP			↑		

## 60 inch Telescope Log

Observer: PBPI: Falco/Kirshner/GellerSpectrograph: FASTGrating: 3002Page: 4307Date: 11/4/96

Number	Object	R.A.	Dec.	L/R	Exp	Comments
117	0932p367	09:35:31.8	+36:33:17.6	41	20m	binby 2 18.5m gso
118	COMP			↑		H889 z=2.84 nice lines!
119,121	SNPASal	09:50:55.9	+33:33:09	2	15m	x2 wow
120,122	COMP			↑		
123,125	1038p430	10:38:18.2	+42:44:28	41	20m	x2
124,126	COMP			↑		
127	Z3219B	10:29:03	+27:27:57	1	15m	
128	COMP			↑		
129	316.012027	10:30	+26:57	3	15m	binby 4 ↓
130	COMP			↑		
131	316.019039	10:29	+27:28	3	5m	Seyfert!
132	COMP			↑		
133	316.019150	10:29	+27:29	3	7m	
134	COMP			↑		
135	316.023631	10:44	+29:45	3	7m	
136	COMP			↑		
137	316.024034	10:30	+27:50	3	6m	imremained
138	COMP			↑		
139	316.024436	10:45	+27:49	3	10m	Hk
140	COMP			↑		
141	316.025184	10:21	+27:54	3	7m	
142	COMP			↑		
143	316.029803	10:31	+28:15	3	7m	
144	COMP			↑		
145	316.030229	10:36	+28:17	3	7m	
146	COMP			↑		
147	316.031771	10:43	+28:22	3	7m	
148	COMP			↑		
149	316.035881	10:41	+28:38	3	15m	
150	COMP			↑		

15 bin 3 ↓

318-808p

318-8

60 inch Telescope Log			Spectrograph: <u>FAST</u>			
Observer: <u>PB</u>			Grating: <u>300R</u>		Page: <u>4308</u>	
PI: <u>Geller/Wilkes</u>			Date: <u>11/4/6</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
151	316.035337	10:36	+28:40	3	9m	H $\alpha$
152	COMP			↑		
153	316.035344	10:20	+28:40	3	9m	H $\alpha$
154	COMP			↑		
155	316.050046	10:38	+29:51	3	8m	
156	COMP			↑		
157	316.050104	10:19	+29:51	3	8m	
158	COMP			↑		
159	316.050760	10:25	+29:56	3	7m	
160	COMP			↑		
161	316.052869	10:36	+30:06	3	10m	
162	COMP			↑		
163	316.056861	10:30	+30:28	3	9m	
164	COMP			↑		
165	316.059136	10:37	+30:39	0	9m	
166	COMP			↑		
167	PG 1402 p 261	14:05	+35:55	4S	3m	1.5" slit
168	COMP			↑		
169	PG 1440 p 356	14:40	+35:26	4S	3m	
170	COMP			↑	8s	
171	PG 1402 p 261			4S	3m	5" slit
172	COMP			↑		great seeing; photometric
173	PG 1440 p 356			4S	3m	
174	COMP			↑	3s	
175/176	HZ44	13:23	+36	0	1m	5" slit; photometric
177	COMP			↑	3s	
178/179	Ferrel	14:09	+50:21	0	1m	
180	COMP			↑	3s	
181	316.061274	10:30	+30:51	3	7m	3" slit L
182	COMP			↑		

60 inch Telescope Log

Observer: PB/CPPI: WilkesSpectrograph: FASTGrating: 300Date: 1/14/96Page: 4309

Number	Object	R.A.	Dec.	L/R	Exp	Comments
183	MRK421	11:01	+38:28	6	4m	3" slit!
184	COMP			↑		
187	N4051	12:00	+44:48	6	2m	
188	COMP			↑		
185	N4151	12:08	+39:41	6	30s	
186	COMP			↑		
189	MRK279	13:51	+69:33	6	90s	
190	COMP			↑		
191	N5548	14:15	+25:22	6	2m	
192	COMP			↑		
193-195	M101	14:05	+91:20	1	30s	Junk ↓
196	COMP			↑		
197-206	BIAS	2		0	0s	
207-216	FLAT			0	6s	
217-226	BIAS			2/41	0s	binby 2
227-236	FLAT			2/41	12s	binby 2
237-246	FLAT			6	12s	binby 4; 1.5" slit
247-256	FLAT			6	3s	5" slit
						nice night.

60 inch Telescope Log  
 Observer: PANTOJA  
 PI: FAST COMBO

Spectrograph: FAST  
 Grating: 3" binby 4 Page: 4310  
 Date: 1/15/96

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-10	BIAS			0	0s	cloudy evening
11-20	FLAT			0	6s	
21-30	BIAS					binby 2
31-40	FLAT					binby 2
41-45	SKY					change binby 4
46-50	HD 1918				5s	defocus & trail
51	COMP				↑	
52-54	M31	00 40 00.0	40 59 42		30s	
55	COMP				↑	
56-58	BDp 284211	21 48 57.1	29 37 48		30s	massey standard AGN man.
59	COMP				↑	
60	MRK 335	00 03 45.1	19 55 27		90s	cloudy
61	COMP				↑	
62	AXPer	01 33 06.0	+54 00 18		4s	symbiotic
63	COMP				↑	
64	AXPer	01 33 06.0	+54 00 18		60s	symbiotic
65	COMP				↑	
66-75	BIAS				0s	
76-85	FLAT				6s	

NO  
bin x 2

no comp for stars

54 0.63  
bin 0.08