

60 inch Telescope Log		Spectrograph: <u>FAST</u>				
Observer: <u>P. Berling</u>		Grating: <u>3002; 3" slit; bin by 4</u>			Page: <u>4326</u>	
PI: <u>Briceno/Geller</u>		Date: <u>1/21/96</u>				
Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-10	BIAS			0	0s	Cirrus
11-20	FLAT			0	6s	Cirrus
21-25	sky			0	2s	Cirrus
26	COMP			↑	5s	
27-31	M31	00:46	+40:59	0	30s	lots of variable clouds
32	COMP			↑		
33-37	M31 sky	00:40	+40:30	0	30s	
38	COMP			↑		
39-40	225m 280	00:41	+41:05	0	4m	↑ clouds
41	COMP			↑		
42-46	HD 217086	22:54	+62:27	0	5s	↓ #41 is good
47	COMP			↑		
48-49	MRK 335	00:03	+19:55	6	2m	
50	COMP			↑		
51-52	PGC 025134	02:05	+13:22	0	3m, 5m	weak; Messier
53	COMP			↑		
54	HBC 369	04:11	+28:05	38	5m	
55	COMP			↑		
56	HBC 373	04:15	+28:12	38	5m	
57	HBC 373 NE	04:18:47	+28:20:09	38	2m	1' NE of HBC 373
58	COMP			↑		
59	HBC 31	04:15	+28:05	38	4m	
60	COMP			↑		
61	HBC 383	04:18	+26:50	38	5m	nebulous star
62	COMP			↑		
63	470.044744	02:16	+12:35	3	8m	HK
64	COMP			↑		Cirrus +
65	470.045444	02:35	+12:37	3	10m	HK @ pix 2092 - weak
66	COMP			↑		more clouds
67, 69	470.046178	02:31	+12:41	3	10m	x2 those pesky clouds!

8.599

1.12

## 60 inch Telescope Log

Observer: PBPI: Kenyon PMS StarsSpectrograph: FASTGrating: 3002Page: 4327Date: 11/21/96

Number	Object	R.A.	Dec.	L/R	Exp	Comments
68,70	COMP			↑		clouds ↓
71	HBCm351	03:49	+24:30	30	2m	
72	HBCm352	03:51	+31:59	30	90s	SW*
73	COMP			↑↓		
74	HBCm353	03:51	+31:59	30	2m	NE*
75,77	HBCm354	03:51	+25:28	30	4m, 7m	NW* +2
76	HBCm355	03:51	+25:28	30	4m	SE*
78	COMP			↑		
79	HBC356	04:00	+25:44	30	5m	
80	COMP			↑		
81	HBCm358m359	04:00	+26:42	30	10m	359 is E of 358
82	COMP			↑		
83	U735Tau	04:11	+28:09	30	2m	
84	FmTau	04:11	+28:05	30	10m	
85	COMP			↑		
86	Anon1	04:10	+28:08	30	10m	
87	COMP			↑		
88,90	CWTau	04:11	+28:03	30	10m	1m a hole in the clouds!
89	COMP			↑		
91	FNTau	04:11	+28:20	30	3m	
92	COMP			↑		
93	471.027243	02:43	+10:42	3	12m	garbage clear/clouds.
94	COMP			↑		
95	LKa3	04:11	+27:45	30	1m	
96	COMP			↑		
97	FPTau	04:11	+28:38	30	90s	
98	FOTau	04:11	+28:05	30	4m	
99	COMP			↑		
100,101	CXTau	04:11	+26:40	30	90s, 6m	long exposure for blue lines
102	COMP			↑		K,H et al

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>4328</u>	
Observer: <u>PB</u>			Grating: <u>2022</u>		Date: <u>11/21/96</u>	
PI: <u>Kenyon/Barton/Geller</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
103	LKCa4	04:13	+28:20	30	2m	cloudy!
104	COMP			↑		seeing not so great 2"
105,106	LYTan	04:14	+28:13	30	5m	(one star only!)
107	COMP			↑		look at all these lines
108	LKCa5	04:14	+28:25	30	5m	stars fade in + out
109	COMP			↑		→ (3 min cloud; 2 min star)
110	V410Tan	04:15	+28:20	30	1m	
111	COMP			↑		
112,113	DDTan	04:15	+28:09	30	8m	+2
114	COMP			↑		
115	DRTan	04:14	+16:53	30	8m	stopped by clouds
116	COMP			↑		
117,118	Feap.34	10:34	+43:21	1	60s	open again
119	COMP			↑		
120	grS341-gal101	09	+22	33	12m	He clearing?????
121	COMP			↑		
122	grS341-gal102	09:11	+22:26	33	12m	
123	COMP			↑		windy
124	grS341-gal107	09:10	+23:07	33	10m	
125	COMP			↑		still plenty of clouds around
126	grS341-gal105	09:11	+23:00	33	10m	poor seeing
127	COMP			↑		
128	grS341-gal106	09:11	+23:02	33	12m	stopped by clouds again
129	COMP			↑		
130	316.066870	10:37:49	+31:21	3	15m	
131	COMP			↑		
132	316.068022	10:43	+31:25	3	12m	
133	COMP			↑		
134	316.076473	10:20	+32:12	3	15m	
135	COMP			↑		

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>4329</u>		
Observer: <u>PB</u>		Grating: <u>300R</u>				
PI: <u>Geller/Wilkes</u>		Date: <u>1/21/96</u>				
Number	Object	R.A.	Dec.	L/R	Exp	Comments
136	316.07181Z	10:41-22.9	+31:46:48	3	15m	No clouds + poor seeing
137	COMP			↑		
138	316.064878	10:44	+31:08	3	15m	
139	COMP			↑		
140,142	PG1402p261	14:05	+25:55	45	5m	1.5" slit x2
141	COMP			↑	3s	
143,144	PG1440p356	14:40	+35:36	45	5m	RT system crashed!!!
145	COMP			↑	8s	dekey few minutes -
146	PG1402p261	14:05	+25:55	45	5m	5" slit
147	COMP			↑	3s	(no TCS window)
148	PG1440p356	14:40	+35:36	45	5m	∴ reset controllers
149	COMP			↑	3s	note: #145 slightly out of
150,151	Ferze 98	14:36	+27:42	0	1m	focus due to RT crash
152	COMP			↑		#143,144 @ good focus
153,154	H244	13:21	+76:23	0	1m	
155	COMP			↑		
156	N5548	14:15	+25:22	6	2m	3" slit
157	COMP			↑		
158	MRK279	13:51	+69:33	6	90s	
159	COMP			↑		
160	N4151	12:08	+39:41	6	30s	
161	COMP			↑		
162	N4051	12:00	+44:48	6	2m	
163	COMP			↑		
164	MRK421	11:01	+38:28	6	4m	
165	COMP			↑		clouds all over
166-169	SUMK	12:43	+61:05	0	10s	@ dawn
170	COMP			↑		
171-180	BEAS			0	0s	
181-190	FLAT			0	6s	
191-200	FLAT			45	12s	1.5" slit
201-210	FLAT			45		5" slit
211-214	DARK					

out of focus?