

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>4/92</u>		
Observer: <u>PBerland</u>		Grating: <u>3000-biny 4.3°</u>		Date: <u>12/21/95</u>		
PI: <u>Geller</u>						
Number	Object	R. A.	Dec.	L/R	Exp	Comments
10	BIAS					6" fresh snow!
11-20	FLAT					
21-25	SKY	zenith				
26	COMP					
27-28	206750	21:43	+38-01	0	5s	
29	COMP			↑		
30-32	206774	21:43	+38-17	0	5s	
33	COMP			↑		
34-35	N7331	22:34	+34-09	0	2m	
36	COMP			↑		
37-38	BDP284211	21:48	+28-37	0	30s	
39	COMP			↑		
40	MARKS	00:03	+45-55	6	1m	
41	COMP			↑		
42-43	158m213	00:40:30Z	+40-50:55	0	5m	heavy cloud
44	COMP			↑		
45-46	225m180	00:41:451	+41-05:12	0	5m	
47	COMP			↑		clearing
48	S23.054132	23:31:24	+12-35:27	3	15m	
49	COMP			↑		
50	S23.071072	23:46:55	+11-33:45	3	15m	Hx
51	COMP			↑		
52	S23.074422	23:57:17	+11-34:26	3	15m	
53	COMP			↑		
54	S23.035954	23:35:14.1	+11-39:28	3	15m	Hx
55	COMP			↑		
56	S23.036017	23:36:37.6	+11-39:55.5	3	15m	Hx
57	COMP			↓		
58	S23.036801	23:56:02	+11-41:11	3	15m	sparkly crashed!
59	COMP			↑		no comp file taken; had to stop

use # 57

## 60 inch Telescope Log

Observer: PBPI: Kirshner/GreierSpectrograph: FASTGrating: 300RPage: 4193Date: 12/21/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
59,61	SN1995ak	02:45:48	+03:13:50	2	30m	x2 bin by 2
60,62	COMP			↑		SN in rows 81-84 on read
63	470.014435	02:36:23	+10:20:20.5	3	10m	bin by 4 ↓
64	COMP			↑		Spiky, crashed again!
65	470.014643	02:35:01	+10:31:11.5	3	12m	lost ~ 10 min
66	COMP			↑		
67	470.015571	02:25:50.70	+10:35:08	3	10m	He pit 2169
68	COMP			↑		
69	470.017334	02:31:27.4	+10:42:30.7	3	10m	
70	COMP			↑		
71	470.017632	02:43:59	+10:42:08	3	10m	
72	COMP			↑		
73	470.017783	02:42:34.5	+10:43:02.6	3	12m	
74	COMP			↑		
75	470.017936	02:39:36	+10:44:07	3	8m	
76	COMP			↑		
77	470.018853	02:39:37	+10:47:45	3	90s	
78	COMP			↑		
79	470.018814	02:22:11	+10:48:09	3	10m	
80	COMP			↑		
81	470.018888	02:26:15	+10:48:07	3	7m	
82	COMP			↑		
83	470.019009	02:37:28	+10:48:44	3	8m	He
84	COMP			↑		
85	470.019100	02:38:01	+10:48:42	3	8m	
86	COMP			↑		
87	470.020111	02:38:44	+10:52:54	3	8m	
88	COMP			↑		
89	470.020609	02:38:17	+10:54:47	3	7m	
90	COMP			↑		

798-3239

-6

750 867

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>4194</u>
Observer: <u>PB</u>				Grating: <u>300R</u>		
PI: <u>Koranyi/Falco/Kirshner/Geller</u>				Date: <u>12/21/95</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
91	awm7-2097	02:54:32	+42:23:41	35	15m	th
92	COMP			↑		
93	awm7-2058	02:51:33	+41:23:48	35	20m	
94	COMP			↑		
95	0640p448	06:40:32	+44:53:39	31	10m	bin by 2, slit PA=68°
96	COMP			↑		
97	0736m063	07:36:302	-06:10:029	31	20m	PA=107°
98	COMP			↑		2 interesting absorption features
99, 101, 103	0640p449	06:40:43	+44:54:27	31	20m	*3 2" slit, PA=33°
100, 102, 104	COMP			↑		(North object = high row #)
105, 106	Hiltner 600	06:42	+02:11	0	30	bin by 4; 3" slit PA=90
107	COMP			↑		
108, 110	SNR95al	07:50:559	+33:33:09	2	15m	bin by 2
109, 111	COMP			↑		
112	312.048726	08:47:27	+28:50:79	3	20m	bin by 4 th
113	COMP			↑		
114	312.055320	08:51:01	+29:10:565	3	15m	pretty face on spiral w/bar
115	COMP			↑		v=30K
116	312.065624SE	08:52:16	+29:42:45	3	10m	southeast comp
117	312.065624NW	"	"	3	10m	← NW → 31K
118	COMP			↑		
119	312.065735	08:52:03	+29:43:144	3	12m	very interesting line
120	COMP			↑		H <sub>α</sub> III shapes
121	312.066776	08:58:23	+29:45:19.9	3	10m	finishes the plate!
122	COMP			↑		
123	313.004039	09:27:59	+26:19:28	3	15m	
124	COMP			↑		
125, 126	Fe7e39	10:3:11	+43:21:50	0	1m	
127	COMP			↑		
128	MRK421	11:01:40	+38:28:43	6	5m	

597 621

60 inch Telescope Log

Observer: PB

PI: Wilkes

Spectrograph: FAST

Grating: 300

Date: 12/21/95

Page: 4195

Number	Object	R.A.	Dec.	L/R	Exp	Comments
129	COMP			↑		
130	N4151	12:08:01	+37:41:01	6	30s	
131	COMP			↑		
132	N5548	14:15:43	+25:27:01	6	2m	
133	COMP			↑		
134-135	H244	13:21:19	+36:23:39	0	1m	
136	COMP			↑		
137-139	41311	10:33:43	+53:29	0	5s	
140	COMP			↑		
141-143	91427	10:33	+23:21	0	5s	
144	COMP			↑		
145-147	91428	10:34	+22:22	0	5s	
148	COMP			↑		
149-151	92940	10:41	+32:37	0	5s	
152	COMP			↑		
153-162	BIAS			0	0s	bin by 4
163-172	FLAT			0	6s	"
173-182	BIAS			0	0s	bin by 2
183-192	FLAT			0	12s	"

gain 1.13  
drive 8.47