

Fax to:  
Susan Tokarz  
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60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>8161</u>		
Observer: <u>P Berlin</u>		Grating: <u>300R</u>		Date: <u>1/13/00</u>		
PI: <u>Am</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
110	BARS				0s	
1120	FLAT				7s	
2150	BARS				0s	
3140	FLAT				14s	lots of cirrus.
4145	sky	zenith		57	2s	
46	COMP			f		
4744	M31	0240	+40	57	30s	
49	COMP			f		
5051	M32	0240	+40	57	30s	
52	COMP			f		
53	022138 p5713	02:21	+57:13	83	12m	
54	COMP			f		
55	022144 p5700	02:21	+57:00	83	12m	
56	COMP			f		pretty cloudy
57	022144 p5712	02:21	+57:02	83	15m	
58	COMP			f		
59	022146 p5709	02:21	+57:09	83	15m	
60	COMP			f		
61	022146 p5710	02:21	+57:10	83	15m	
62	COMP			f		
63	022148 p 7103	02:21	+57:10	83	20m	
64	COMP			f		
65	022148 p5709	02:21	+57:09	83	20m	
66	COMP			f		
67	SN1999ap	02:31	+59:23	2	20m	PA=100
68	COMP			f		
69	SN 50147779	05:39	+12:06	112	10m	
70	COMP			f		
71	48101 w	05:39	+12:04	112	8m	close ew pair; blended
72	COMP			f		

60 inch Telescope Log			Spectrograph: <u>FAST</u>			Page: <u>8162</u>
Observer: <u>PB</u>		Grating: <u>3002</u>		Date: <u>1/13/00</u>		
PI: <u>Calvet</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
73	gvsorb-48670	05:40	+0236	112	12m	sky is much better
74	COMP			↑		
75	SN1999em	04:41	+02	2	12m	PA=S
76	COMP			↑		
77	49001	05:40	+0206	112	6m	
78	COMP			↑		
79	49001	05:41	-01:58	112	4m	but beyond; v. close to E Ori
80	COMP			↑		
81	49002	05:41	-01:16	112	6m	
82	COMP			↑		
83	49004	05:41	-01:47	112	8m	cool nebula; N2024
84	COMP			↑		the Flame
85	SG0305	05:41	-01:42	112	7m	SE*
86	SG0303N	"	"	112	7m	NW*
87	COMP			↑		
88	50180	05:42	-01:28	112	6m	
89	COMP			↑		
90	SG092	05:42	-01:28	112	7m	
91	COMP			↑		
92	SG085	05:42	-01:34	112	12m	
93	COMP			↑		
94	51399	05:43	-01:09	112	8m	
95	COMP			↑		
96	50777	05:	-01	112	10m	
97	COMP			↑		
98-99	Hiltner 60	05:42	+02	86	45s	PA=01
100	COMP			↑		
101	266em	06:03	+07	12	8m, 1m	
102	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>863</u>	
Observer: <u>PB</u>			Grating: <u>300R</u>			
PI: <u>Calvet</u>			Date: <u>1/13/00</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
103	gysan 6548	05:48	-01:12	112	9m	
104	COMP			f		clouds ff
105	47088	05:49	-01:57	112	9m	
106	COMP			f		
107	66319	05:50	-01:17	112	12m	
108	COMP			f		
109	47683	05:50	-01:55	112	5m	
110	COMP			f		
111	60612	05:51	-01:27	112	12m	
112	COMP			f		
113	55077	05:50	-01:16	112	9m	103
114	COMP			f		more clouds
115	69359	05:51	-01:31	112	12m	
116	COMP			f		
117	ZMJ 68353	06:35	-01:54	68	12m	wk ; stopped
118	COMP			f		
119	ZMJ 035475	07:52	+18:49	68	5m	*
120	COMP			f		
121	ZMJ 091902	09:19	+16:6	68	10m	wk stopped by clouds
122	COMP			f		
123-132	BIAS				0s	
133-142	FLAT				7s	
143-152	BIAS				0s	
153-162	FLAT				14s	
<del>End of FAST Run</del>						