

*★ Start of FAST Run ★*

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>6942</u>		
Observer: <u>P Berlin</u>		Grating: <u>3002</u>		Date: <u>2/5/99</u>		
PI: _____						
Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-10	ISAS				0s	clouds,
11-20	FLAT				6s	[FAST and electronics have been adjusted; and then tweaked back to normal]
21-30	BTAS				0s	
31-40	FLAT				12s	
41-45	sky	zenith		S7	2s	mtn. cloud forming
46	WMP			f	5s	MAT in cloud
47-48	M32	02:39	+10:40	S7	1m	
49	WMP			f	5s	
50-59	DARK				15m	Fog.
60-61	DARK				20m	
62-63	Hiltner 62	06:42	+02:11	S6	90s	clearing
64	WMP			f		open @ 11pm
65	AS 76.254	07:25	+52:10	64	6m	poor seeing
66	WMP			f		E to W
67	SN 10022	08:54	+36:30	2	15m	
68	WMP			f		
69	AS 76.257	07:32	+51:50	64	6m	
70	WMP			f		
71	.258	07:45	+8:17	64	6m	W to E
72	WMP			f		
73	.259	07:12	+8:35	64	8m	
74	WMP			f		
75	.260	07:10	+57:45	64	6m	
76	WMP			f		
77	.261	06:59	+57:49	64	7m	clouds! - fog - close
78	WMP			f		open again
79	.264	07:33	+58:19	64	8m	
80	WMP			f		

*chip gain + noise calc. a little low  
noise ~ 0.9 ; chip gain ~ 1.15*

60 inch Telescope Log

Observer: PB  
 PI: Ken Andri

Spectrograph: FAST  
 Grating: 300R  
 Date: 2/5/99

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
81	ε576.262	07:11	+57:21	64	8m	
82	COMP			↑		
83	.263	07:28	+57:49	64	11m	
84	COMP			↑		
85	.265	07:29	+58:11	64	6m	
86	COMP			↑		
87	.267	07:22	+57:59	64	7m	
88	COMP			↑		
89	.271	07:30	+58:11	64	9m	
90	COMP			↑		
91	.272	07:21	+58:10	64	9m	
92	COMP			↑		
93	.274	07:06	+58:04	64	9m	+ to W
94	COMP			↑		
95	.278	07:08	+58:47	64	8m	+ 's to E-W
96	COMP			↑		
97	τ .277	07:30	+58	56	10m	really really
98	COMP			↑		
99	Frige 34	10:26	+43	56	2m	
100	COMP			↑		
101	NGC 038.172	09:22	+21:57	59	10m	
102	COMP			↑		
103	.171	09:22	+21:51	59	6m	
104	COMP			↑		
105	.174	09:22	+22:20	59	10m	
106	COMP			↑		
107	.175	09:22	+22:59	59	15m	
108	COMP			↑		
109	.176	09:22	+21:58	59	8m	
110	COMP			↑		

60 inch Telescope Log

Observer: PB  
 PI: Andi & Dan

Spectrograph: FAST  
 Grating: 300  
 Date: 2/5/99

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
111	NGC 038.177	09:22	+22:41	S9	6m	bright main seeing ~2"
112	COMP			T		
113	.178	09:23	+22:37	S9	6m	
114	COMP			T		
115	.179	09:23	+22:14	S9	10m	
116	COMP			T		
117	.180	09:23	+22:41	S9	6m	
118	COMP			T		
119	.183	09:23	+22:12	S9	15m	
120	COMP			T		
121	.213	09:24	+22:25	S9	6m	
122	COMP			T		
123	.215	09:24	+22:29	S9	7m	* to W
124	COMP			T		
125	.216	09:24	+22:19	S9	10m	
126	COMP			T		
127	MRK 421	11:01	+38:28	G	4m	
128	COMP			T		
129-130	H 241	12:21	+31:23	S6	2m	
131	COMP			T		
132	N4051	12:00	+44:48	G	2m	
133	OMP			T		
134-5	N4151	12:08	+39:41	G	30s	
138	COMP			T		
137	N5548	14:15	+25:22	G	3m	
138	OMP			T		
139	alpha 3.1.07	14:33	+26:12	S5	12m	
140	COMP			T		
141	alpha	14:31	+25:29	S5	10m	
142	OMP			T		

60 inch Telescope Log  
 Observer: PB  
 PI: Dan

Spectrograph: FAST  
 Grating: 3002  
 Date: 2/5/99

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
143	Alam 3-i. ODS	14:24	+26:37	35	6m	
144	CMP			†		
145	.001	14:24	+25:01	35	12m	
146	CMP			†		
147	.002	14:30	+27:31	35	12m	
148	CMP			†		
149	.003	14:27	+26:30	35	4m	
150	CMP			†		
151	.004	14:31	+25:37	35	6m	
152	CMP			†		
153	MORZTI	13:50	165	6	3m	
154	CMP			†		
155	NS866	15:05	+35:57	57	4m	
156	CMP			†		clear @ dawn
157-166	BIAS				0s	
167-176	FLAT				6s	
177-186	BIAS				0s	
187-196	FLAT				12s	
197-206	DARK				20m	