

60 inch Telescope Log
 Observer: P Berlin
 PI: Huchra
 Spectrograph: FAST
 Grating: 300L
 Date: 3/21/99
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BEAS				0s	
11-20	FLAT				7s	
21-30	BEAS				0s	
31-40	FLAT				14s	
41-45	sky	zenith		57	2s	clear skies!
46	COMP			↑		
47-48	Hiltner 600	06:42	+02	56	1m	
49	COMP			↑		
50-51	Hiltner 600	06:42	+02	56	1m	
52	COMP			↑		
53-55	CC Com	04:49	+56:59	107	20-90s	
56	COMP			↑		
57	B G Gen	06:03	+27:41	100	6m	
58	COMP			↑		
59	ZMOS 0191.7	05:07	+19	68	5m	
60	COMP			↑		
61	ZMOS 3507.6	05:35	+20:23	68	6m	
62	COMP			↑		
63	ZMOS 819.5	05:45	+17:46	68	6m	sup + to SE
64	COMP			↑		
65	ZMOS 61230.7	06:12	+13:51	68	12m	stars by 2; 3 objects also enter faint gal
66	COMP			↑		
67	ZMOS 6346.1	06:41	+17:12	68	10m	
68	COMP			↑		
69	ZMOS 65571.8	06:28	+16:59	68	12m	
70	COMP			↑		
71	ZMOS 6726.9	06:26	+29:47	68	15m	
72	COMP			↑		
73	ZMOS 67022.0	06:30	+28:24	68	7m	redo from 11/11/98 #105
74	COMP			↑		#105; gal to E P1083 good for CE.

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>7149</u>		
Observer: <u>PB</u>		Grating: <u>3008</u>		Date: <u>3/21/99</u>		
PI: <u>Falco</u>						
Number	Object	R. A.	Dec.	L/R	Exp	Comments
75	06548p0159	07:01	+01:59	60	5m	
76	WMP			↑		
77	06588p1412	07:04	+14:08	60	4m	
78	WMP			↑		
79	07881m0128	07:20	-01:34	60	6m	
80	WMP			↑		
81	07206p0252	07:23	+02:45	60	3m	
82	WMP			↑		
83	07372m0231	07:37	-02:34	60	12m	faint LSB good em!
84	WMP			↑		
85	07378m0126	07:40	-01:34	60	15m	
86	WMP			↑		
87	07308m0021	07:50	+00:21	60	9m	
88	WMP			↑		
89	07550m0125	07:57	-01:33	60	10m	
90	WMP			↑		
91	07588p0607	07:58	+06:06	60	5m	
92	WMP			↑		
93	08000p1006	08:03	+09:57	60	4m	
94	WMP			↑		
95	08115m0008	08:14	-00:22	60	3m	star
96	08115m0008	"	"	60	7m	galaxy star
97	WMP			↑		
98	SN1999aa	08:29	+27:11	2	20m	PA=64
99	WMP			↑		
100	Faye 34	10:3	-54	56	2m	PA=90
101	WMP			↑		
102	Faye 34	10:36	+43:21	56	2m	PA=163
103	WMP			↑		

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Observer: <u>PS</u>			Grating: <u>3002</u>			
PI: <u>Combo</u>			Date: <u>3/21/99</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
104	SN 1988bu	10:46	+11:50	2	20m	PA=18 M*
105	COMP			↑		
106	101954p6911	10:19	+69:11	70	15m	PA=90
107	COMP			↑		
108	N 3227	10:20	+22:07	6	3m	
109	COMP			↑		
110	MRK421	11:38	+37:28	6	4m	3
111	COMP			↑		
112	N4051	12:00	+44:48	6	2m	4
113	COMP			↑		
114	N4151	12:08	+38:41	6	30s	5
115	COMP			↑		
116	numl-50	09:18	+19:29	35	20m	redo from 12/25/98 por
117	COMP			↑		
118,120,122	SN 1988S	11:46	+47:28	2	20m	
119,121,123	COMP			↑		
124-5	H244	13:26	+26	56	90s	
126	COMP			↑		
127	g1644DS022	12:51	-17:30	81	15m	
128	COMP			↑		
129	g1644DS030	12:51	-17:22	81	15m	
130	COMP			↑		
131	g1644DS034	12:52	-17:38	81	12m	
132	COMP			↑		
133	g1644DS031	12:51	-17:21	81	12m	
134	COMP			↑		
135	g1644DS128	12:52	-16:43	81	12m	
136	COMP			↑		
137	g1644DS127	12:53	-16:45	81	9m	
138	COMP			↑		

60 inch Telescope Log
 Observer: PB
 PI: Huchra

Spectrograph: FIST
 Grating: 3000
 Date: 3/21/99

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
139	ZM10141.9	12:01	+20:24	68	7m	
140	COMP			↑		
141	ZM120857.7	12:01	+20:21	68	6m	
142	COMP			↑		
143	ZM120219.0	12:02	+21:00	68	6m	
144	COMP			↑		
145	ZM120139.8	12:01	+22:39	68	5m	
146	COMP			↑		
147	ZM120025.2	12:00	+21:33	68	6m	
148	COMP			↑		
149	ZM130656.7	13:06	+18:53	68	5m	
150	COMP			↑		
151	ZM131938.2	13:19	+28:14	68	4m	
152	COMP			↑		
153	ZM133332.9	13:33	+26:16	68	5m	
154	COMP			↑		
155	ZM133257.7	13:32	+27:43	68	4m	
156	COMP			↑		
157	ZM142929.3	14:29	+23:18	68	4m	
158	COMP			↑		
159	ZM142631.9	14:26	+21:33	68	3m	
160	COMP			↑		
161	ZM142650	14:26	+22:32	68	4m	
162	COMP			↑		
163	ZM143018.0	14:30	+21:44	68	4m	
164	COMP			↑		
165	SN1999cc	16:07	+07:58	2	5m.	PA=15
166	COMP			↑		
167	1NS86	15:03	+01:47	57	3m	
168	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>7152</u>	
Observer: <u>PB</u>			Grating: <u>3002</u>			
PI: <u>ALL</u>			Date: <u>3/26/99</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
169	N5548	14:15	+25:22	6	3m	
170	COMP			↑		
171	MRK279	13:51	+69:37	6	3m	
172	COMP			↑		
173	BPP332642	15:33	+73	56	1m	
174	COMP			↑		
175	PG1108462	17:08	+60:13	56	6m	corrupted file
176-178	HD 142926	15:35	+88:33	57	3s	
179	COMP			↑		
180-182	HD 154791	17:06	+27:58	57	6s	
183	COMP			↑		
184-186	HD 147550	16:22	+52:04	57	8s	
187	COMP			↑		clear skies
188-190	HD 148184	16:27	+18:27	57	6s	
191	COMP			↑		
192-194	HD 157857	17:26	+11:0	57	6s	
195	COMP			↑		
196-198	HD 157857	17:26	+11:0	57	6s	
199	COMP			↑		
200-201	BIAS				0s	
202-203	FLAT				7s	
204-205	BIAS				0s	
206-207	FLAT				14s	
208-209	DARK				15m	

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