



60 inch Telescope Log  
 Observer: P Berlin  
 PI: Huchra & Falco  
 Spectrograph: FAST  
 Grating: 3000  
 Date: 3/9/99  
 Page: 7108

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	
11-15	DARK				20m	
16-25	BTS				0s	
26-35	FLAT				7s	a few thin clouds.
36-45	BTS				0s	
46-55	FLAT				14s	
56-60	sky	zenith		57	2s	
61	WMP			r	5s	
62-64	H 1752971	06:57	+12:13	57	4s	
65	WMP			r		
66-67	6191323	05:4	+57:45	56	2m	1.1
68	WMP			r		
69-71	616am	04:11	+58:59	101	2s-40s	
72	WMP			r		
73	2M04362	04:31	+17:26	88	4m	
74	WMP			r		
75	2M0434577	04:34	+17:24	68	4m	
76	WMP			r		
77	2M04327.6	04:43	+17:50	68	8m	
78	WMP			r		
79	2M0433156	04:33	+17:56	68	5m	
80	WMP			r		
81	025710574	03:0	+05:42	60	5m	
82	WMP			r		
83	0721100171	03:23	-00:07	60	6m	
84	WMP			r		
85	030704422	03:10	+42:13	60	7m	superposed stars, but good cm
86	WMP			r		
87	I284138	03:06	+42:02	60	7m	+ to E. cm ok
88	WMP			r		

chip gain cal a little low  
 noise ~ 7.8  
 gain ~ 1.09

60 inch Telescope Log				Spectrograph: <u>FAST</u>		
Observer: <u>PB</u>				Grating: <u>300L</u>		Page: <u>7109</u>
PI: <u>Falco</u>				Date: <u>3/9/99</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
89	03212 p1734	03:24	+17:45	60	12m	
90	WMP			r		
91	04350 p2201	04:01	+22:12	60	5m	
92	WMP			r		
93	04020 p0419	04:05	+04:26	60	12m	V. LSB em
94	WMP			r		
95	04024 p0417	04:05	+04:24	60	4m	
96	WMP			r		
97	04341 m0224	04:36	-02:17	60	4m	
98	WMP			r		
99	04349 m0523	04:37	-02:16	60	3m	
100	WMP			r		
101	04361 p0005	04:38	+00:11	60	4m	
102	WMP			r		
103	04305 p0555	04:33	+05:21	60	10s	stellar nuc S <sub>0</sub> 1!!
104	WMP			r		
105	04320 p0301	04:32	+03:01	60	4m	
106	WMP			r		
107	04374 p0515	04:40	+07:20	60	34m	Ngal
108	WMP			r		
109	04374 p0714	04:40	+07:20	60	2m	Sgal
110	WMP			r		
111	05516 p1158	05:57	+11:56	60	2m	
112	WMP			r		
113	06041 p0550	06:03	+07:49	60	4m	
114	WMP			r		
115	06192 p0721	06:21	+10:21	60	2m	
116	WMP			r		
117	06306 p1205	06:33	+12:05	60	10S	sup star  fuzz
118	06306 p1205	"	"	60	10m	←  fuzz of.
119	WMP			r		

118 - "fuzz" symmetrically distributed around  
 superposed star: cannot get  
 galaxy velocity - NO em lines.

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>7110</u>	
Observer: <u>PB</u>			Grating: <u>3002</u>			
PI: <u>Falco &amp; Huchra</u>			Date: <u>3/9/99</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
120	B66ce	06:03	+27:11	100	6m	clouds coming in
121	WMP			r		
122	SN1999aa	06:27	+71:29	2	20m	PA=20
123	WMP			r		
124	06301p1013	06:33	+40:41	60	8m	
125	WMP			r		
126	06348p6530	06:39	+65:27	60	7m	
127	WMP			r		
128	06306p1205	06:36	+80:36	60	6m	
129	WMP			r		
130	06372p7121	06:39	+74:20	60	5m	
131	WMP			r		
132	06376p7129	06:44	+74:26	60	5m	bn by 2; * to W
133	WMP			r		
134	06392p6608	06:44	+66:06	60	3m	
135	WMP			r		
136	06382p6543	06:43	+65:40	60	4m	
137	WMP			r		
138	06364p5316	06:40	+53:12	60	4m	
139	WMP			r		known there is a skunk
140	06389p3130	06:42	+74:26	60	4m	inside the building.
141	WMP			r		
142	2M091647.5	09:16	+21:57	60	5m	
143	WMP			r		
144	2M091530.1	09:15	+23:36	60	5m	+ to W
145	WMP			r		
146/147	Ferret 34	10:36	+45:01	50	20s	
148	WMP			r		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>711</u>	
Observer: <u>PB</u>			Grating: <u>300R</u>			
PI: <u>Falco et al</u>			Date: <u>3/9/99</u>			
Number	Object	R. A.	Dec.	L/R	Exp	Comments
149, 150, 35, 79	Horseshoe	09:57	+11:25	99	20m	for Andy Santopetersi
150, 2, 74, 30	WMP			↑	x6	+ Kris Erikson <u>5" slit</u> Holmberg IX Horseshoe
161	N3227	10:20	+20:07	6	3m	3" slit ↓
162	WMP			↑		
163	MRK22	11:01	+15:24	6	4m	
164	WMP			↑		
165, 79	SN1998S	11:46	+47:28	2	20m	x3
166, 80	WMP			↑		
171	H2M	13:21	+36	56	2m	PA=90
172	WMP			↑		
173, 75	SN1999E	13:17	-18:33	2	20m	x2 PA=16 strange sn
174, 76	WMP			↑		
177	12588p1021	13:00	+70:11	60	4m	thin clouds!
178	WMP			↑		
179	MRK27A	13:51	+16:33	6	3m	
180	WMP			↑		
181	13346p757	13:35	+78:02	60	5m	
182	WMP			↑		
183	13033p5352	13:05	+53:35	60	4m	sup *?; gal spec ok! pec.
184	WMP			↑		
185	13015p1510M	13:03	+12:54	60	12m	nice blue. extended em.
186	WMP			↑		
187	13125p1729	13:14	+17:13	60	3m	
188	WMP			↑		
189	13344p1747	13:16	+17:24	60	3m	
190	WMP			↑		
191	13411p1818	13:42	+18:18	60		
192	WMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>7112</u>	
Observer: <u>PB</u>			Grating: <u>3002</u>			
PI: <u>Krishner</u>			Date: <u>3/9/99</u>			
Number	Object	R. A.	Dec.	L/R	Exp	Comments
193	15387p5435	1540	+5119	60	12m	
194	WMP			T		
195	16237p7103	1633	+7403	68	11m	
196	WMP			T		
197	SN199ac	1607	+0758	2	15m	PA=6
198	WMP			T		
199	MRK51	1653	+5945	6	5m	
200	WMP			T		
201	N5548	1441	+2522	6	3m	
202	WMP			T		
203	N5866	1505	+5557	57	4m	
204	WMP			T		thin clouds scattered
205-214	BIAS				0s	⊙ down
215-224	FLAT				7s	
225-234	BIAS				0s	
235-244	FLAT				14s	
245-254	FLAT				9s	bin by 2; 5" slit for Andy