

60 inch Telescope Log		Spectrograph: <u>FAST</u>				
Observer: <u>COLKINS</u>		Grating: <u>2006</u>			Page: <u>6937</u>	
PI: <u>All, Huchra</u>		Date: <u>1/23/99</u>				
Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-11	Test comp					
5-9	Dark				15m	
10-19	BEAS				0s	
20-29	FLAT				6s	
30-39	BEAS				0s	
40-49	FLAT				12s	
50	PG0205p134	2 08	13 36	#56	1.5m	circus @ sunset
51	comp			↑		
52	M31	00 42	41 16	#57	1m	
53	comp			↑		
54	Akn 564	22 42	29 43	#6	6m	bright star west
55	comp			↑		PA = 75°
56	N7469	23 03	8 52	#6	3m	PA = 59°
57	comp			↑		
58	MRK335	20 06	20 13	#6	3.5m	PA = 65°
59	comp			↑		
60	ZM014945.6p	1 49	33 11	#68	15m	
61	comp			↑		
62	ZM014603.1p	1 46	31 33	#68	16m	
63	comp			↑		
64	ZM014758.3p	1 47	39 44	#68	8m	
65	comp			↑		
66	ZM014708.3	1 47	33 10	#68	12m	
67	comp			↑		
68	ZM015029.5p	1 50	41 32	#68	10m	
69	comp			↑		
70	ZM015113.6p	1 51	33 01	#68	12m	three cirrus
71	comp			↑		
72	ZM015145.8p	1 51	33 16	#68	10m	star to the west
73	comp			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>6938</u>	
Observer: <u>CAVENS</u>			Grating: <u>300L</u>		Date: <u>1/23/99</u>	
PI: <u>Huedra, Rines, Kishner, Garcia</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
74	2M015454.7p	1 54	33 00	#68	15m	
75	comp			↑		
76	2M014725.3p	1 47	32 06	#68	15m	
77	comp			↑		
78	2M015001.3p	1 50	32 02	#68	12m	
79	comp			↑		
80	2M015249.2p	1 52	40 27	#68	20m	clouds ! ! #
81	comp			↑		
82	2M015340.7p	1 53	40 35	#68	17m	
83	comp			↑		
84	2576-242	7 40	54 52	#64	10m	extracted E gal also
85	comp			↑		
86	2576-243	7 12	57 11	#64	13m	
87	comp			↑		
88	2576-244	7 07	55 00	#64	15m	
89	comp			↑		
90	SN1998fa	6 42	41 23	#2	20m	
91	comp			↑		
92	2576-245	6 56	55 13	#64	16m	
93	comp			↑		
94-96	CICam	4 15	55 59	#107	2,20,90	clouds moving in
97	comp			↑		
98	2576-246	7 25	54 59	#64	17m	
99	comp			↑		
100	2576-247	7 13	59 40	#64	4m	object west
101	comp			↑		
102	2576-249	6 57	54 25	#64	20m	
103	comp			↑		
104	2576-247	7 18	59 40	#64	6m	object west (low counts on file 100)
105	comp			↑		

60 inch Telescope Log			Spectrograph: FAST		Page: 6939	
Observer: <u>CALKINS</u>			Grating: <u>100L</u>		Date: <u>1/22/99</u>	
PI: <u>Rines, Keranyi, Huchra, Mink</u>						
Number	Object	R.A.	Dec.	L/R	EXP	Comments
106	a576-250	7 26	55 45	#64	17m	
107	comp			↑		
108	a576-251	7 25	53 05	#64	4m	
109	comp			↑		
110	a576-252	7 29	56 08	#64	5m	galaxy west
111	comp			↑		
112	mkw2-083	10 20	-3 13	#35	20m	thru clouds
113	comp			↑		
114	2M100235.5p	10 02	19 10	#68	7m	" " "
115	comp			↑		
116	LM100717.2p	10 07	21 00	#68	4m	
117	comp			↑		
118	N4486B	12 30	12 29	#78F	5m	Tilt = 672.0
119	comp			↑		
120	N4486B	12 30	12 29	#78F	5m	" " "
121	comp			↑		
122	N4486B	12 30	12 29	#78F	5m	" " "
123	comp			↑		
124	N4486B	12 30	12 29	#78F	5m	" " "
125	comp			↑		
126	N4486B	12 30	12 29	#78F	5m	" " "
127	comp			↑		
128	N4486B	12 30	12 29	#78F	5m	" " "
129	comp			↑		
130-139	FLAT				6s	← FLATs for #78F
140-142	sn1998S	11 45	47 29	#2	20m	thru clouds
143	comp			↑		
144	sn1999E	13 17	-18 32	#2	20m	PA=0°
145	comp			↑		
146	MRK 421	11 04	58 12	#6	4m	

110 ~~extended~~ 2 objects on slit; extracted E object as a 276-252 + W object as a 276-252W (file 111 now)  
BOTH IN CLUSTER

