

ATTN: Susan Tokarz (Hello!)

60 inch Telescope Log Observer: <u>M. Calkins</u> PI: <u>Carter/Kirchner</u>	Spectrograph: <u>FAST</u> Grating: <u>200L/3" slit</u> Date: <u>4/30/98</u>
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARKS				15m	binby 2
11-20	REF				0c	
21-30	FLAT				12s	
31-40	REF				0s	binby 4
41-50	FLAT				6s	
51-55	SKY			57	6s	
56	comp			↑		
57	Feige 56	12 06	11 40	#56	60s	seeing 2"
58	comp			↑		
59	AGK 2p 43928	9 52	43 28	#57	5s	
60	comp			↑		
61	2011670	11 51	26 47	#75	12m	
62	comp			↑		11:51:27 + 26:47:01
63	2004601	11 51	27 39	#75	4m	11:51:32 + 27:39:03
64	comp			↑		11:52:02 + 27:15:36
65	2011671	11 52	30 19	#75	4m	
66	comp			↑		
67	2013733	11 55	32 04	#75	15m	
68	comp			↑		
69	2007380	11 55	27 19	#75	4m	
70	comp			↑		
71	2004002	11 55	32 11	#75	6m	
72	comp			↑		
73	2001650	11 56	32 01	#75	3m	
74	comp			↑		
75	sn1998s	11 46	47 28	#2	10m	binby 2
76	comp			↑		
77	sn1998bn	12 29	-23 09	#2	10m	
78	comp			↑		
79	sn1998ag	11 56	55 07	#2	10m	

Shift between 64 + 62 in 0.018  
 used comp 62 for file 63

60 inch Telescope Log

Observer: M. Calkins

PI: Kirshner / Carter

Spectrograph: FAST

Grating: 300L / 3" slit

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Date: 4/30/98

Number	Object	R.A.	Dec.	L/R	Exp	Comments
80	comp			↑		
81	sn1998ab	10 48	41 55	#2	15m	
82	comp			↑		
83	H244	13 23	26 07	#56	2m	
84	H244	13 23	26 07	#56	2m	
85	comp			↑		
86	Z003005	11 56	32 09	#75	2m	binby 4
87	comp			↑		
88	Z003006	11 57	30 25	#75	90s	
89	comp			↑		
90	Z004003	11 57	27 52	#75	90s	
91	comp			↑		
92	N002947	11 57	31 05	#75	20m	
93	comp			↑		
94	Z001651	11 58	27 52	#75	12m	
95	comp			↑		
96	Z000603	11 58	28 11	#75	90s	
97	comp			↑		
98	Z003473	11 58	27 31	#75	12m	
99	comp			↑		
100	Z008569	11 58	28 17	#75	4m	
101	comp			↑		
102	Z000939	11 58	27 27	#75	5m	"arms" of galaxy also in slit
103	comp			↑		
104	Z010021	11 58	28 24	#75	3m	
105	comp			↑		
106	Z000678	11 58	30 24	#75	6m	
107	comp			↑		
108	Z008570	11 59	30 44	#75	12m	
109	comp			↑		

60 inch Telescope Log		Spectrograph: <u>FAST</u>				
Observer: <u>M. Calkins</u>		Grating: <u>300L/3"cl.t</u>			Page: <u>6221</u>	
PI: <u>Carter/Kirchner/Huchra</u>		Date: <u>4/30/98</u>				
Number	Object	R.A.	Dec.	L/R	Exp	Comments
110	2010022	11 59	30 09	#75	8m	
111	comp			↑		11:59:33 +30:09:19
112	2006248	11 59	30 50	#75	4m	11:59:52 +30:50:50
113	comp			↑		11:59:52 +30:06:51
114	N001749	12 00	31 50	#75	3m	
115	comp			↑		
116	2004603	12 00	31 13	#75	11m	
117	comp			↑		
118	N000500	12 00	31 57	#75	5m	
119	comp			↑		
120	2002336	12 02	29 51	#75	6m	
121	comp			↑		
122	2002675	12 02	29 51	#75	3m	
123	comp			↑		
124	N0002948	12 02	26 15	#75	3m	
125	comp			↑		
126	2000148	12 04	31 54	#75	4m	
127	comp			↑		
128	2010023	12 04	28 10	#75	3m	
129	comp			↑		
130	2001652	12 04	31 10	#75	8m	
131	comp			↑		
132	2001653	12 04	26 59	#75	15m	
133	comp			↑		
134	N000592	12 05	30 52	#75	7m	
135	comp			↑		
136	A1600p1911	16 02	19 03	#68	20m	star to the west
137	comp			↑		
138	sn1998bp	17 54	18 19	#2	15m	binby 2
139	comp			↑		

slit between 13 + 111 is 0.020  
 used comp 113 for 112 anyway

60 inch Telescope Log  
 Observer: M. Calkins  
 PI: Huchra

Spectrograph: FA  
 Grating: 300L/2" sh- Page: 6222  
 Date: 4/29/98

Number	Object	R.A.	Dec.	L/R	Exp	Comments
140	2M183909.7p	18 39	16 24	<sup>H</sup> 68	15m	binby 4, star to the east
141	comp			↑		
142	2M184010.3p	18 40	17 17	<sup>H</sup> 68	17m	2 stars to the east, 1 star to the west
143	comp			↑		
144	AG Dra	16 01	66 47	<sup>H</sup> 12	30s	
145	comp			↑		
146-155	BTA's				0s	binby 4
156-165	FLAT's				6c	
166-175	BTA's				0s	binby 2
176-185	FLAT's				12s	
186-195	DARK's				15m	binby 4