

60 inch Telescope Log

Observer: CALKINS

PI: All, Kirshner, Huchra

Spectrograph: FAST

Grating: 300L

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Date: 7/21/98

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	Binby 4
11-20	BIAS				0s	↓
21-30	FLAT				6s	
31-40	BIAS				0s	Binby 2
41-50	FLAT				12s	↓
51-55	sky			57	2s	(7:42 pm)
56	comp			↑		
57	H244	13 23	36 08	#56	3m	
58	comp			↑		
59	N4151	12 10	39 24	#6	2m	
60	comp			↑		
61	N4051	12 03	44 32	#6	3m	
62	comp			↑		
63	N4258	12 18	47 18	#6	2m	
64	comp			↑		
65	MRK 421	11 04	38 12	#6	4m	
66	comp			↑		
67, 68	SN1998S	11 46	47 29	#2	20m	galaxy to west,
69	comp			↑		Binby 2
70, 71	Feige 66	12 37	25 03	#56	30s	
72	comp			↑		
73	MRK 279	13 53	69 18	#6	3m	Binby 4
74	comp			↑		
75	NG 866	15 06	55 45	#57	3m	Dust Lane
76	comp			↑		
77	2M163229.9p	16 32	19 07	#68	20m	Binby 2. for separation
78	comp			↑		from object to east
79	2M170714.0p19	17 07	19 40	#68	20m	object to east, binby 4
80	comp			↑		
81	2M170717.5p	17 07	23 55	#68	20m	

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>6443</u>
Observer: <u>CALKINS</u>				Grating: <u>300L</u>		
PI: <u>Nudra, McClintock, Kanyon, Hong</u>				Date: <u>7/24/98</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
82	comp			↑		
83	2M170025.5p	17 00	23 06	#68	20m	
84	comp			↑		
85, 86	AG Dra	16 01	46 47	#12	2, 20	
87	comp			↑		
88	comp			↓		1.1" slit
89, 90	4U1907p09	19 09	09 49	#77	20m	bumped-up exposures for here
91	comp			↑		
92, 93	HD230579	19 04	11 06	#77	10, 20s	
94	comp			↑		
95, 96	CICy9	19 50	35 41	#12	1, 30s	3" slit
97	comp			↑		
98	2M190737.6p	19 07	19 27	#68	20m	bright star to west *
99	comp			↑		
100	2M192429.0p	19 24	19 39	#68	7 m	one star to east * (object itself is a star)
101	comp			↑		
102	2M192112.3p	19 21	21 37	#68	5m	*
103	comp			↑		
104	2M192257.9p	19 22	18 04	#68	20 m	* star
105	comp			↑		
106	2M191421.3p	19 14	19 29	#68	20m	objects to east + west (• • •)
107	comp			↑		
108	2M193042.7p	19 30	33 36	#68	15m	2 objects east, 3 objects west
109	comp			↑		
110	2M200726.6p	20 07	22 59	#68	20m	3 objects east, poor SNR
111	comp			↑		
112	2M2007142.0p	20 07	19 17	#68	20m	1 object east, 2 objects west
113	comp			↑		
114	2247p0337	22 47	03 36	#80	20m	
115	comp			↑		

110 - probably 2 objects almost on top of each other  
needs to be binmed by 2

60 inch Telescope Log  
 Observer: CALKINS  
 PI: Kirshner, All, Huchra, Kenyon  
 Spectrograph: FAST  
 Grating: 3006  
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
116	sn1998de	00 48	27 38	#2	20m	Galaxy to West,
117	comp			↑		Binby 2
118	Feige 110	23 19	-05 09	#56	90s	
119	comp			↑		
120	MRK 509	20 44	-10 43	#6	3m	Binby 4
121	comp			↑		
122	N7469	23 03	08 53	#6	2.5m	Bright star to east
123	comp			↑		
124	N7331	22 36	34 24	#57	3m	
125	comp			↑		
126	2M230245.9p	23 02	27 45	#68	12m	Clearly a star - <i>check on</i> galaxy to east <i>Binby 2?</i>
127	comp			↑		
128	2M230413.9p2	23 04	26 56	#68	5m	
129	comp			↑		
130	2M234216.5p	23 42	28 11	#68	4m	AGN!!
131	comp			↑		
132	2M215837.8p	23 58	28 50	#68	6m	Object to the West
133	comp			↑		
134	2M230030.6p2	23 00	24 29	#68	4m	
135	comp			↑		
136	2M230418.2p	23 04	27 38	#68	4m	
137	comp			↑		
138, 139	AG Peg	21 51	12 37	#12	6, 12s	
140	comp			↑		
141, 142	Z And	23 33	48 49	#12	2, 30s	
143	comp			↑		
144-153	BIAS				0s	
154-163	FLAT				6s	
164-173	FLAT				8s	1.1" slit
174-183	BIAS				0s	BINBY 2, 3" slit

184-193 FLAT  
 194-203 Dark

126 is a star. EXTRACTED ~~OBJECT~~ GALAXY TO EAST AS FILE 127.

LOTS OF 2M objects are stars W H4 2, 23