

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>7432</u>		
Observer: <u>CALVIN</u>		Grating: <u>600L</u>		Date: <u>6/17/99</u>		
PI: <u>Kirshner, Kochanek</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-3	DARK				15m	
4-13	DEAC				0x	
14-23	FLAT				35s	Tilt = 494
24-33	FLAT				35s	Tilt = 585
34	H294	13 23	36 09	#56	2m	PA = -56, Tilt = 585
35	comp			↑	35s	
36	sm1999c1	12 31	14 25	#2	15m	
37	comp			↑	35s	
38	H294	13 23	36 09	#56	2m	Tilt = 494, PA = 90
39	comp			↑	35m	
40, 41	MFO46	13 53	37 52	#88	7.5m	PA = 106
42	comp			↑	35s	
43	MFO41	13 33	17 35	#88	15m	PA = 56
44	comp			↓	35s	
45 46	MFO41	13 33	17 35	#88	15m	
47	comp			↑	35s	
48	HD140716	15 44	32 30	#88	N/A	rate = 3, PA = 90
49	comp			↑	35s	
50, 51	MFO69	15 44	41 07	#88	7.5m	PA = -46
52	comp			↑	35s	
53, 54	MFO78	16 23	37 15	#88	7.5m	PA = -40
55	comp			↑	35s	
56, 57	NGC5846	15 06	01 36	#88	5m	PA = 31
58	comp			↑	35s	
59, 60	MFO68	15 35	30 52	#88	7.5m	PA = 97°
61	comp			↑	35s	
62	comp			↓	35s	
63-65	MFO73	ka 00	41 28	#88	15m	PA = -44
66	comp			↑	35s	
67	HD183492	19 29	14 36	#88	N/A	Rate = 3, PA = 90

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Observer: <u>CALKINS</u>				Grating: <u>6006</u>		Date: <u>6/17/99</u>	
PI: <u>Kochanek</u>							
Number	Object	R.A.	Dec.	L/R	Exp	Comments	
68	comp			↑	35s		
69	comp			↓	35s		
70-73	MFO75	16 08	16 47	#88	15m	PA=100° thru clouds	
74	comp			↑	35s	(file 70 clouded out)	
75	HD162555	17 50	29 19	#88	N/A	Rate=3	
76	comp			↑	35s		
77	comp			↓	35s		
78-80	MFO83	17 24	23 43	#88	15m		
81	comp			↑	35s		
82	HD156874	17 18	28 49	#88	N/A	rate=3	
83	comp			↑	35s		
84	comp			↓	35s		
85, 86	MFO96	22 27	29 05	#88	15m	PA=96, clouds	
87	comp			↑	35s	returning	
88, 89	NGC7331	22 37	34 24	#88	5m	PA=-9	
90	comp			↑	35s		
91	comp			↓	35s		
92, 93	MFO97	22 36	19 22	#88	15m	PA=-43, star "west"	
94	comp			↑	35s		
95	BDp284211	21 51	28 51	#56	1m	PA=90°	
96	comp			↑	35s		
97	HD183492	19 29	14 35	#88	N/A	rate=3	
98	comp			↑			
99-103	sky	zenith		#57	2.2		
104	comp			↑			
105-114	BEAS				0s		
115-124	FLAT				35s		
125-134	DARK				15m		