

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>2776</u>		
Observer: <u>CALKINS</u>		Grating: <u>2006</u>		Date: <u>11/11/99</u>		
PI: <u>all, Kenyon</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	
11-20	BIAS				0s	
21-30	FLAT				7s	
31-40	BIAS				0s	
41-50	FLAT				14s	
51, 52	BDp 284211	21 51	28 51	#52	30s	
53	comp			↑		
54, 55	BDp 284211	21 51	28 51	#56	30s	
56	comp			↑		
57, 58	BDp 284211	21 51	28 51	#56	30s	PA=0
59	comp			↑		
60	M31	00 42	41 16	#57	1m	
61	comp			↑		
62	M31	00 42	41 16	#57	1m	
63	comp			↑		
64, 65	HD 154791	17 06	23 58	#12	1,10s	
66	comp			↑		
67	Draco Cl	17 20	57 50	#12	12m	
68	comp			↑		
69, 70	RSOPh	17 50	-6 42	#12	5,120	
71	comp			↑		
72, 73	V4 Her	18 14	20 59	#12	20/100	
74	comp			↑		
75, 76, 77	S149	18 18	27 1	#12	5/10/100	
78	comp			↑		
79, 80	V443 Her	18 22	23 27	#12	10/100	
81	comp			↑		
82, 83	RS105	18 24	01 46	#12	2,20m	
84	comp			↑		
85, 86	DQ Ser	18 44	5 03	#12	1,11m	line 74

Reduced in 2 sets - before + after grating change

60 inch Telescope Log

Observer: CALKINS  
 PI: Kenyon

Spectrograph: FAST  
 Grating: 300L  
 Date: 11/11/99

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
87	comp			↑		
87, 89	V1413Aq1	19 03	16 26	#12	2000/1000	seeing going ↓
90	comp			↑		
91-93	BFCyg	19 22	29 40	#12	2,15,70	
94	comp			↑		
95-98	CHCyg	19 24	50 14	#12	7/7/49/16	
99	comp			↑		
100-102	HM Sgc	19 41	16 44	#12	1,19,60	
103	comp			↑		
104, 105	AS360	19 45	18 37	#12	5/100	
106	comp			↑		
107, 108	S169	19 50	46 15	#12	100/600	
109	comp			↑		
110-112	CICyg	19 50	35 40	#12	1,10,60	
113	comp			↑		
114-116	PLVul	20 21	2 34	#12	1,10,60	
117	comp			↑		
118-120	V1016Cyg	19 57	39 49	#12	1,10,60	
121	comp			↑		
122, 123	He2m467	20 35	20 11	#12	200/1000	seeing terrible
124	comp			↑		
125, 126	S180	20 39	-5 17	#12	3,5m	seeing 73"
127	comp			↑		
128, 129	He2m468	20 41	34 44	#12	200/600	seeing 68"
130	comp			↑		
131-133	S190	21 41	2 43	#12	1,10,60	
134	comp			↑		
135, 136	V1329Cyg	20 51	35 39	#12	20/120	
137	comp			↑		
138, 139	V407Cyg	21 02	45 46	#12	200/1000	

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>7178</u>		
Observer: <u>CALKINS</u>		Grating: <u>300L, 600L</u>		Date: <u>11/11/99</u>		
PI: <u>Kenyon, Kirchner, Holt</u>						
Number	Object	R. A.	Dec.	L/R	Exp	Comments
140	comp			↑		
141-143	AG Per	21 51	14 13	#12	1,200	
148	comp			↑		
149, 150	RA Cr	23 43	-15 17	#12	1,100	
151	comp			↑		
152, 153	E Girard	00 44	40 40	#12	1,500	
154	comp			↑		
155-157	AX Per	1 36	54 15	#12	4,000	
158	comp			↑		
159, 162	V741 Per	1 58	52 53	#12	10,60	
161	comp			↑		
162	sn1999ej	1 22	33 28	#2	20m	
163	comp			↑		
164, 165	sn1999eb	1 43	4 13	#2	15m	PA=13°
166	comp			↑		
167	sn1999dg	2 33	21 01	#2	20m	PA=17°, seeing getting better
168	comp			↑		
169-178	FLAT				140	SN=ROW 70
179	MBM12.372	3 02	16 59	#110	20m	600L, Tilt=74°, slit=2", Focus=1140
180	comp			↑		
181	MBM12.373	3 02	17 10	#110	20m	Row 75
182	comp			↑		
183	MBM12.374	3 02	17 13	#110	20m	
184	comp			↑		
185, 186	MBM12.375	2 58	19 47	#110	13m	
187	comp			↑		
188, 189	MBM12.376	2 57	19 56	#110	13m	
190	comp			↑		

217	002010.10000	3 33	-1 43	#112	4m	PA=44
220	comp			↑		