

60 inch Telescope Log			Spectrograph: FAS 5			Page: 7647
Observer: CALKINS			Grating: 3000			
PI: All Garcia, Hydra			Date: 10/14/99			
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				19s	
51-55	sky			#57	2s	cirrus to west @
56	comp			↑		sunset
57,58	HD192281	20 12	40 16	#56	4s	
59	comp			↑		
60,61	HD192281	20 12	40 16	#56	4s	
62	comp			↑		
63,64	HD192281	20 12	40 16	#56	4s	PA = -1.0"
65	comp			↑		
66	H7331	12 57	39 24	#57	5m	
67	comp			↑		
68	skn 564	22 42	29 43	#60	5m	
69	comp			↑		
70	H7469	23 05	8 52	#60	3m	Row = 80
71	comp			↑		
72	V4641 Sgr	18 19	-25 24	#65	10m	
73	comp			↑		
74	XTE J1858p22	18 58	22 39	#65	15m	PA = 52°
75	comp			↑		
76	2M202520	20 25	15 50	#60	4m	
77	comp			↑		
78	2M202521	20 25	24 43	#68	5m	Row = 82
79	comp			↑		
80	V4641 Sgr	18 58	-25 24	#65	10m	
81	comp			↑		
82	2M202722	20 27	15 13	#68	7m	

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>7648</u>	
Observer: <u>Collins</u>				Grating: <u>300L</u>		Date: <u>10/19/99</u>	
PI: <u>Huchra, Garcia</u>							
Number	Object	R. A.	Dec.	L/R	Exp	Comments	
83	comp			↑			
84	ZM23101	20 31	20 13	#68	5m	Row - 80	
85	comp			↑			
86	V4641 Sp	18 19	-25 24	#65	10m		
87	comp			↑			
88	ZM23039	20 29	29 45	#68	20m	clouds moving thru	
89	comp			↑		(radio?)	
90	XTE J1858	18 58	22 39	#65	15m	row - 80, PA = 66°	
91	comp			↑			
92	ZM231546	22 22	19 43	#68	4.5m		
93	comp			↑			
94	ZM231704	23 17	18 03	#68	3m		
95	comp			↑			
96	ZM231734	23 17	21 55	#68	3.5m		
97	comp			↑			
98	ZM231757	23 17	16 47	#68	2.5m		
99	comp			↑			
100	ZM231818	23 18	21 19	#68	6m		
101	comp			↑			
102	ZM231858	23 18	15 51	#68	2.5		
103	comp			↑			
104	ZM231909	23 19	12 55	#68	5m		
105	comp			↑			
106	ZM231912	23 19	18 40	#68	3m		
107	comp			↑			
108	ZM232020	23 20	12 08	#68	2m		
109	comp			↑			
110	ZM232021	23 20	18 42	#68	2.5m	row - 40	
111	comp			↑			
112	ZM232138	23 21	20 14	#68	3m		

60 inch Telescope Log

Observer: CALKINS

PI: Garcia, Kochanek

Spectrograph: FAST

Grating: X06

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
113	comp			↑		
114	XTE J1858p22	18 58	22 39	165	17m	PA=64°
115	comp			↑		
116	ZM J004248	00 42	23 29	188	3m	
117	comp			↑		
118	ZM J005448	00 54	11 49	188	2m	
119	comp			T		
120	ZM J011102	01 11	17 39	188	2.5m	
121	comp			↑		
122	ZM J011934	01 19	32 10	188	3 m	
123	comp			↑		
124	ZM J012319	1 23	32 16	188	2m	
125	comp			↑		
126	ZM J012328	1 23	33 19	188	90s	
127	comp			g		
128	012349	1 23	23 08	188	90s	
129	comp			↑		
130	015206	1 52	35 24	188	60s	
131	comp			↑		
132	015250	1 52	36 13	188	75s	
133	comp			T		
134	015355	1 53	36 19	188	75s	
135	comp			↑		
136	015634	1 56	31 26	188	90s	
137	comp			↑		
138	015805	1 58	37 39	188	2m	- Row 40
139	comp			↑		
140	015921	1 59	36 49	188	75s	
141	comp			↑		
142	022527	2 25	37 10	188	45s	

60 inch Telescope Log				Spectrograph: PAST		Page: 7650	
Observer: <u>Calkins</u>				Grating: <u>3006</u>			
PI: <u>Kneibele, Jones</u>				Date: <u>10/14/99</u>			
Number	Object	R.A.	Dec	L/R	Exp	Comments	
143	comp			↑			
144	022943	2 29	23 57	#88	90s		
145	comp			↑			
146	024019	2 40	32 16	#88	4m		
147	comp			↑			
148	024443	2 44	16 44	#88	4m		
149	comp			↑			
150	024920	2 49	19 18	#88	60s		
151	comp			↑			
152	030243	3 07	29 36	#88	2.5m		
153	comp			↑			
154	031025	3 10	20 23	#88	4m		
155	comp			↑			
156	031250	3 12	18 48	#88	4m	bright star to west	
157	comp			↑			
158	032234	3 22	14 55	#88	3.5m		
159	comp			↑			
160	034117	3 41	15 24	#88	2.5m		
161	comp			↑			
162	034958	3 49	17 50	#88	5m		
162	comp			↑			
164	035007	3 50	17 41	#88	2m		
165	comp			↑			
166	9119-273	00 52	-2 40	#64	20m		
167	comp			↑			
168	274	01 00	-2 57	#64	12m		
169	comp			↑			
170	275	00 56	-01 19	#64	4m		
171	comp			↑			
172	276	00 56	-3 31	#64	15m		

60 inch Telescope Log  
 Observer: CALVINUS  
 PI: Fines, Briggs  
 Spectrograph: FAST  
 Grating: 300L  
 Date: 10/14/99  
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Number	Object	R.A.	Dec.	I/R	Exp	Comments
173	comp			↑		
174	277	00 51	-4 44	#64	15m	
175	comp			↑		
176	278	00 54	-3 17	#64	17m	
177	comp			↑		
178	022145	2 21	57 05	#83	4m	Row-80
179	comp			↑		
180	022146	2 21	57 07	#83	3m	
181	comp			↑		
182	022146	2 21	57 09	#83	5m	
183	comp			↑		
184	022146	2 21	57 11	#83	4m	
185	comp			↑		
186	022146	2 21	57 14	#83	2m	
187	comp			↑		
188	022149	2 21	57 01	#85	2.5m	
189	comp			↑		
190	022451	2 21	57 15	#83	3.5m	Row 80
191	comp			↑		
192	022152	2 21	57 07	#83	4m	
193	comp			↑		
194	022154	2 21	57 15	#83	3.5m	
195	comp			↑		
196	022155	2 21	57 14	#83	1s	
197	comp			↑		
198	022156	2 21	57 12	#83	90s	
199	comp			↑		
200	022156	2 21	57 12	#83	60s	
201	comp			↑		
202	022157	2 21	57 10	#83	90s	

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>7652</u>	
Observer: <u>CALVIN</u>		Grating: <u>3006</u>		Date: <u>10/14/99</u>			
PI: <u>B3339</u>							
Number	Object	R.A.	Dec.	L/R	Exp	Comments	
203	comp			↑			
204	022158	2 21	57 06	#83	3.5m		
205	comp			↑			
206	022158	2 21	57 10	#83	4m		
207	comp			↑			
208	022159	2 21	57 08	#83	5m	Row 80 (bright star east)	
209	comp			↑			
210	022200	2 22	57 04	#83	5m		
211	comp			↑			
212	022200	2 22	57 09	#83	90s		
213	comp			↑			
214	022200	2 22	57 15	#83	5m		
215	comp			↑			
216	022204	2 22	57 06	#83	6m		
217	comp			↑			
218	022204	2 22	57 08	#83	5m	Row 80	
219	comp			↑			
220	022204	2 22	57 08	#83	6m	Row 80	
221	comp			↑			
222	022206	2 22	57 10	#83	4m		
223	comp			↑			
224	022206	2 22	57 11	#83	3.5m		
225	comp			↑			
226	022206	2 22	57 13	#83	4.5m		
227	comp			↑			
228	022207	2 22	57 03	#83	4m		
229	comp			↑			
230	022207	2 22	57 12	#83	3m		
231	comp			↑			
232	022208	2 22	57 09	#83	4.5m		

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>7653</u>
Observer: <u>CALKINS</u>				Grating: <u>30026</u>		
PI: <u>Calvet, Kirshner, All</u>				Date: <u>10/14/99</u>		
Number	Object	R. A.	Dec.	L/R	Exp	Comments
233	comp			↑		
234	guson 53094	5 57	-1 55	#112	10m	PA = 0°
235	comp			↑		
236	53975	5 58	-1 41	#112	4.5m	
237	comp			↑		
238	61478	5 58	-00 14	#112	4m	↓ (enough obs?!)
239	comp			↑		
240	54718	5 59	-1 58	#112	4.5m	
241	comp			↑		
242	55023	5 59	-1 51	#112	3m	
243	comp			↑		
244	shn 2770	09 09	22 09	#2	20m	PA = 100°
245	comp			↑		
246	guson 53264	5 47	-00 13	#112	5m	PA = 0°
247	comp			↑		
248	HDS 2971	7 01	27 12	#57	4s	
249	comp			↑		
250	Hiltner 600	6 45	2 08	#56	45s	
251	comp			↑		
252	Hiltner 600	6 45	2 08	#56	45s	PA = 0°
253	comp			↑		
254-263	BIAS				0s	
264-273	FLAT				7s	
274-283	BIAS				0s	
284-293	FLAT				14s	
294-303	DARK				15m	