

60 inch Telescope Log
 Observer: K Rines
 PI: All, Hachra, Mahdavi
 Spectrograph: FAST
 Grating: 300l
 Date: 2/19/99
 Page: 7011

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	
11-20	BIAS				0	
21-30	FLAT				6s	
31-40	BIAS				0	bin by 2
41-50	FLAT				12s	
51-60	FLAT				15s	tilt = 570
61-65	sky				2s	C:29 bin by 4 clear
66	COMP				6s	
67	Frige 25	2 38	5 20	56	2m	6:45
68	COMP			↑		
69	Frige 25	2 38	5 20	56	2m	bin by 2
70	COMP			↑		
71	M32	0 42	40 52	57	30s	bin by 4
72	COMP			↑		
73	HZ 14	4 41	10 59	56	5m	
74	COMP			↑		
75-77	CICam	4 19	55 59	107	22090s	
78	COMP			↑		
79	2m 043707.5 pl 2	4 37	12 21	68	4m	bin by 2 obj to E
80	COMP			↑		
81	2m 042032.0 p 35	4 20	35 41	68	4m	bin by 4
82	COMP			↑		
83	src 6149.150	2 42	1 35	59	5m	
84	COMP			↑		
85	149	2 42	1 31	59	5m	
86	COMP			↑		
87	151	2 43	1 39	59	7m	
88	COMP			↑		
89	154	2 43	2 00	59	4m	* to W
90	COMP			↑		

60 inch Telescope Log

Observer: Rines

PI: Mahdavi, Mehra, Rines

Spectrograph: FAST

Grating: 300A

Page: 7012

Date: 2/19/99

Number	Object	R. A.	Dec.	L/R	Exp	Comments
91	sr gb 149.155	2 43	1 54	59	4m	
92	COMP			↑		
93	156	2 43	1 54	59	6m	
94	COMP			↑		
95	153	2 43	1 59	59	8m	
96	COMP			↑		
97	146	2.42	1 01	59	8m	
98	COMP			↑		
99	148	2.42	2 58	59	12m	
100	COMP			↑		
101	2m015248.2, 40	1 52	40 20	68	8m	redo 2/16
102	COMP			↑		
103	2m0150135, 41	1 50	41 54	68	10m	obj. to E
104	COMP			↑		
105	2m014855.7, 33	1 48	33 45	68	12m	* to W
106	COMP			↑		
107	a 576-253	7 10	58 38	64	8m	
108	COMP			↑		
109	255	7 11	58 56	64	6m	obj to W
110	COMP			↑		
111	256	7 13	58 15	64	5m	
112	COMP			↑		
113	268	7 17	58 38	64	6m	* to W, obj to E
114	COMP			↑		
115	270	7 08	54 46	64	10m	em
116	COMP			↑		
117	275	7 00	53 42	64	8m	
118	COMP			↑		
119	276	6 56	56 03	64	5m	* to W
120	COMP			↑		

60 inch Telescope Log				Spectrograph: <u>FAST</u>		
Observer: <u>Rines</u>				Grating: <u>300l</u>		Page: <u>7013</u>
PI: <u>Rines, Kirchner, Mahdavi</u>				Date: <u>2/19/99</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
121	a576_292	7 05	53 58	64	15m	
122	COMP			↑		
123	291	7 37	55 38	64	12m	
124	COMP			↑		
125	297	7 44	53 50	64	15m	
126	COMP			↑		
127	248	7 08	56 03	64	20m	
128	COMP			↑		
129	SN1999aa	8 27	21 29	2	20m	tilt = 570, $\alpha = 24 \rightarrow 39$
130	COMP			↑		obj at 115
131	Feige 34	10 39	43 21	56	2m	$\alpha = 64^\circ$
132	COMP			↑		
133	nrqs038.189	9 23	22 07	59	15m	redo from 2/16 $\alpha = 90^\circ$
134	COMP			↑		obj. to W
135	nrqs076.280	10 07	13 55	59	7m	
136	COMP			↑		
137	281	10 07	15 03	59	6m	
138	COMP			↑		
139	283	10 07	14 24	59	7m	
140	COMP			↑		
141	284	10 07	14 52	59	4m	
142	COMP			↑		
143	287	10 07	14 58	59	5m	redo from 2/16
144	COMP			↑		
145	288	10 07	14 36	59	4m	
146	COMP			↑		
147	289	10 07	14 36	59	4m	em!
148	COMP			↑		
149	285	10 07	14 46	59	4m	
150	COMP			↑		

60 inch Telescope Log

Spectrograph: FAST

Observer: Rines

Grating: 300R

Page: 7014

PI: Rines

Date: 2/19/99

Number	Object	R.A.	Dec.	L/R	Exp	Comments
151	1213-172	11 13	28 03	64	10m	
152	COMP			↑		
153	180	11 28	28 09	64	5m	
154	COMP			↑		
155	188	11 08	28 57	64	4m	
156	COMP			↑		
157	193	11 23	27 15	64	6m	obj to E
158	COMP			↑		
159	198	11 19	26 58	64	10m	
160	COMP			↑		
161	202	11 17	31 14	64	15m	
162	COMP			↑		
163	207	11 01	28 50	64	8m	
164	COMP			↑		
165	209	11 23	27 30	64	8m	
166	COMP			↑		
167	213	11 17	27 18	64	5m	
168	COMP			↑		
169	211	11 15	28 35	64	6m	
170	COMP			↑		
171	210	11 13	28 45	64	4m	obj to E
172	COMP			↑		
173	215	11 28	29 09	64	8m	
174	COMP			↑		
175	222, 222E	11 28	27 22	64	15m	222E is E obj
176	COMP			↑		
177	220	11 18	28 53	64	5m	
178	COMP			↑		
179	256	11 18	28 54	64	4m	
180	COMP			↑		

222, 222E



60 inch Telescope Log

Observer: Rinos

PI: Rinos

Spectrograph: FAST

Grating: 300

Page: 7015

Date: 2/19/99

Number	Object	R.A.	Dec.	L/R	Exp	Comments
181	a1213_227	11 20	28 50	64	3m	
182	COMP			↑		
183	221	11 21	29 09	64	4m	
184	COMP			↑		
185	218	11 10	29 02	64	5m	em
186	COMP			↑		
187	226	11 13	28 57	64	4m	
188	COMP			↑		
189	231	11 10	28 41	64	8m	
190	COMP			↑		
191	293	11 10	28 41	64	3m	
192	COMP			↑		
193	232	11 15	29 09	64	5m	
194	COMP			↑		
195	237	11 15	27 28	64	7m	
196	COMP			↑		
197	228	11 24	27 19	64	10m	* to W
198	COMP			↑		
199	230	11 26	27 11	64	15m	obj to W
200	COMP			↑		
201	229	11 27	27 20	64	10m	
202	COMP			↑		
203	242	11 03	29 14	64	6m	
204	COMP			↑		
205	240	11 08	31 11	64	8m	em
206	COMP			↑		
207	246	11 26	30 25	64	10m	
208	COMP			↑		
209	258	11 10	28 44	64	5m	
210	COMP			↑		

60 inch Telescope Log

Observer: Rines

PI: Rines, Koranyi, Wilkes

Spectrograph: FAST

Grating: 300A

Date: 2/19/99

Page: 70/6

239, 239E
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
211	a1213-245	11 20	29 12	64	6m	
212	COMP			↑		
213	239	11 05	28 36	64	10m	E obj is 239E, $\Delta=80$
214	COMP			↑		W obj is Δ , middle is 239
215	305	11 30	27 07	64	6m	} $\Delta=80$
216	COMP			↑		
217	272	11 30	27 19	64	10m	
218	COMP			↑		
219	mkw12-i.024	13 58	+9 03	35	6m	obj to E
220	COMP			↑		
221	025	14 01	10 32	35	8m	
222	COMP			↑		
223	026	14 00	9 55	35	5m	
224	COMP			↑		
225	N5548	14 17	25 08	6	3m	
226	COMP			↑		
227	MRK421	11 04	38 12	6	4m	
228	COMP			↑		
229	N4051	12 03	44 32	6	2m	
230	COMP			↑		
231	H244	13 23	36 08	56	2m	
232	COMP			↑		
233	H244	13 23	36 08	56	2m	bin by 2
234	COMP			↑		
235-244	BIAS				0	
245-254	FLAT				12s	
255-264	BIAS				0	bin by 4
265-274	FLAT				6s	
275-284	DARK				15m	bin by 2