

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>6989</u>		
Observer: <u>K Rines</u>		Grating: <u>3001</u>		Date: <u>2/16/99</u>		
PI: <u>All Huchra</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	bin by 2
11-20	BIAS				0s	
21-30	FLAT				12s	
31-40	FLAT				12s	tilt = 590 ^{not marked} _{in header}
41-50	BIAS				0s	bin by 4 (tilt = 610)
51-60	FLAT				6s	
61-65	sky				5s	6:17
66	COMP				6s	errors to N, E
67	M32	00 39	+40 35	57	90s	6:49
68	COMP			↑		
69	AZ44	4 40	11 02	56	4m	dome acting up - reset:
70	COMP			↑		$\delta = 0^\circ$
71	2m014645.0p30	1 46	30 21	68	12m	$\alpha = 90$
72	COMP			↑		nic em
73	2m015008.2p40	1 50	40 13	68	8m	
74	COMP			↑		
75	2m 015027.2p33	1 50	33 09	68	8m	
76	COMP			↑		
77	2m014706.9p41	1 47	41 26	68	8m	
78	COMP			↑		
79	2m014034.9p41	1 46	41 44	68	8m	
80	COMP			↑		
81	2m014750.4p32	1 47	32 29	68	12m	* to W
82	COMP			↑		
83	2m015353.3p32	1 53	32 16	68	10m	
84	COMP			↑		
85	2m014816.4p32	1 48	32 52	68	8m	
86	COMP			↑		
87	2m015023.1p32	1 50	32 29	68	10m	
88	COMP			↑		

60 inch Telescope Log
 Observer: Rines
 PI: Koranyi, Garcia, Kishner, Mahdavi
 Spectrograph: FAST
 Grating: 3001
 Date: 2/15/99
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Number	Object	R. A.	Dec.	L/R	Exp	Comments
89	obj-1049	2 57	41 37	35	15m	
90	COMP			↑		
91	1014	2 57	41 56	35	15m	X to W
92	COMP			↑		
93	1020	2 57	42 11	35	15m	obj to W
94	COMP			↑		em
95	1038	2 51	42 12	35	20m	A to W, obj to E?
96	COMP			↑		
97-99	CICam	4 19	55 59	107	2, 20, 90s	
100	COMP			↑		
101	SN1999aa	8 27	21 30	2	20m	tilt = 590 $\alpha = -48.9$
102	COMP			↑		bin by 2
103	Ferge 34	10 36	41 20	56	2m	$\alpha = 83$
104	COMP			↑		
105	ngc 038.182	9 23	22 31	59	15m	tilt = 610, bin by 4, $\alpha = 90$
106	COMP			↑		X to E
107	184	9 23	22 17	59	15m	obj to E
108	COMP			↑		
109	203	9 23	22 48	59	15m	
110	COMP			↑		
111	204	9 23	22 32	59	12m	
112	COMP			↑		
113	mlw2-096	10 27	-3 55	35	15m	
114	COMP			↑		
115	-099	10 26	-2 49	35	12m	X to E
116	COMP			↑		
117	-100	10 28	-3 13	35	10m	
118	COMP			↑		
119	-097	10 26	-3 24	35	20m	
120	COMP			↑		

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Observer: <u>Rines</u>			Grating: <u>300A</u>		Date: <u>2/15/99</u>	
PI: <u>Rines</u>						
Number	Object	R. A.	Dec.	L/R	Exp	Comments
121	a1213_033	11 28	27 23	64	4m	
122	COMP			↑		
123	034	11 19	29 10	64	4m	
124	COMP			↑		
125	234	11 19	29 09	64	7m	
126	COMP			↑		
127	035	11 21	31 15	64	3m	
128	COMP			↑		
129	036	11 16	29 23	64	3m	
130	COMP			↑		
131	037	11 15	29 31	64	2m	
132	COMP			↑		
133	038	11 23	29 35	64	4m	
134	COMP			↑		
135	039	11 18	28 13	64	4m	
136	COMP			↑		
137	266	11 18	28 12	64	6m	
138	COMP			↑		
139	040	11 01	29 47	64	4m	
140	COMP			↑		
141	041	11 16	29 13	64	4m	obj to E
142	COMP			↑		
143	042	11 11	28 42	64	4m	em!!
144	COMP			↑		
145	043	11 22	27 35	64	4m	
146	COMP			↑		
147	044	11 10	30 09	64	3m	
148	044 NW	11 10	30 09	64	7m	-044 to E
149	COMP			↑		

60 inch Telescopa Log

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
150	a1213_045	11 24	27 38	64	3m	
151	COMP			↑		
152	046	11 10	28 16	64	3m	
153	COMP			↑		
154	047	11 28	27 27	64	3m	A to W
155	COMP			↑		
156	048	11 05	28 47	64	3m	em!!
157	COMP			↑		
158	049	11 07	28 35	64	4m	
159	COMP			↑		
160	052	11 05	30 09	64	4m	
161	COMP			↑		
162	054	11 09	31 32	64	4m	
163	COMP			↑		
164	050	11 14	31 26	64	4m	
165	COMP			↑		
166	051, 051W	11 14	27 42	64	6m	A to E, 51, 51W to W
167	COMP			↑		
168	055	11 11	28 43	64	4m	
169	COMP			↑		
170	056	11 29	28 15	64	3m	
171	COMP			↑		
172	057	11 24	28 19	64	4m	
173	COMP			↑		
174	060	11 31	29 18	64	3m	
175	COMP			↑		
176	058	11 05	29 51	64	4m	
177	COMP			↑		
178	059	11 08	29 13	64	6m	
179	COMP			↑		

60 inch Telescope Log

Observer: Rines

PI: Tustin

Spectrograph: FAST

Grating: 300A

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
180	A164405037	12 56	-17 19	81	8m	
181	COMP			↑		
182	038	12 55	-17 20	81	8m	
183	COMP			↑		
184	039	12 55	-17 19	81	8m	gal to W
185	COMP			↑		
186	040	12 55	-17 19	81	8m	gal to E
187	COMP			↑		em
188	041	12 54	-17 18	81	8m	
189	COMP			↑		
190	042	12 53	-17 18	81	8m	
191	COMP			↑		
192	107	12 54	-16 54	81	12m	
193	COMP			↑		
194	108, 109	12 54	-16 53	81	12m	108 E, 109 W bin by
195	COMP			↑		$\alpha = 80^\circ$
196	MRK 421	11 04	+30 12	6	6m	$\alpha = 90$
197	COMP			↑		wind ~ 15, cirrus
198	N 5548	14 17	+25 11	6	3m	
199	COMP			↑		
200	HZ 44	13 23	36 07	56	2m	
201	COMP			↑		
202	HZ 44	13 23	36 07	56	2m	bin by 2
203	MRK 279	13 52	69 17	6	6m	
204	COMP			↑		too cloudy 5:24
205-214	BIAS				0s	
215-224	FLAT				12s	
225-234	BIAS				0s	bin by 4
235-244	FLAT				6s	
245-254	DARK				15m	

WRONG OBJECT

oops! forgot COMP