

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>7629</u>	
Observer: <u>P. Berland</u>			Grating: <u>300L</u>			
PI: <u>Huchra &amp; Falco</u>			Date: <u>10/18/99</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
10	DARK				15s	
11-20	BIAS				0s	
21-30	FLAT				7s	clear skies!
31-40	BIAS				0s	a little hazy though
41-50	FLAT				14s	
51-55	sky	zenith		67	2s	
56	COMP			↑		
57	ZM185715.9	18:57	+37:59	68	2m	
58	COMP			↑		
59	ZM185718.5	18:57	+38:00	68	2m	
60	COMP			↑		
61	ZM185702.4	18:57	+38:47	68	2m	
62	COMP			↑		
63	ZM185741.1	18:57	+37:55	68	2m	
64	COMP			↑		windy
65	ZM185741.8	18:57	+38:41	68	4m	
66	COMP			↑		
67	1721Sp0141	17:24	+01:39	84	10m	spiral LSB em
68	COMP			↑		
69	1715Sp7227	17:14	+72:23	84	18m	PA=45° LSB
70	COMP			↑		
71	17153p706	17:14	+71:12	84	5m	PA=45° brighter companion
72	COMP			↑		binary? gal in slit to E
73	171347p2109	17:36	+21:07	84	6m	
74	COMP			↑		
75	ZM185748.9	18:57	+37:59	68	3m	
76	COMP			↑		
77	ZM185757.3	18:57	+38:29	68	4m	
78	COMP			↑		

STARTED USING ILLUMINATION CORRECTION  
ON BIN BY 4 DATA

60 inch Telescope Log

Observer: PB

PI: Huckin & Andi

Spectrograph: FAST

Grating: 300L

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Date: 10/16/99

Number	Object	R.A.	Dec.	L/R	Exp	Comments
79	ZM191106.5	19:11	+38:57	68	2m	
80	COMP			↑		
81	ZM191147.5	19:11	+41:48	68	3m	
82	COMP			↑		
83	ZM191057.5	19:10	+37:39	68	4m	
84	COMP			↑		
85	ZM191128.4	19:14	+41:52	68	4m	
86	COMP			↑		
87	ZM191952.0	19:15	+39:54	68	4m	
88	COMP			↑		
89	ZM191855.2	19:18	+57:52	68	4m	
90	COMP			↑		
91	ZM191938.7	19:19	+39:42	68	3m	
92	COMP			↑		
93	ZM192251	19:22	+39:26	68	4m	
94	COMP			↑		
95	ZM192257.6	19:22	+40:29	68	4m	
96	COMP			↑		
97	ZM192337.9	19:23	+39:59	68	7m	extended
98	COMP			↑		
99	ZM195653.7	19:56	+40:21	68	4m	ok. 4" slit
100	COMP			↑		
101	ZM195654.3	19:56	+40:22	68	3m	
102	COMP			↑		
103	src 6063.218	00:23	+23:39	59	6m	em
104	COMP			↑		
105	279	00:23	+23:25	59	7m	
106	COMP			↑		
107	281	00:24	+23:08	59	5m	
108	COMP			↑		

60 inch Telescope Log

Observer: PB

PI: Andi & Ken

Spectrograph: FAST

Grating: 3002

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Date: 10/14/99

Number	Object	R. A.	Dec.	L/R	Exp	Comments
109	src 063.282	00:29	+21:06	59	3m	
110	COMP			↑		
111	283	00:29	+23:31	59	5m	
112	COMP			↑		
113	285	00:26	+21:46	59	7m	
114	COMP			↑		
115	286	00:26	+21:47	59	10m	
116	COMP			↑		
117	287	00:26	+21:48	59	2m	
118	COMP			↑		
119,120	Xray 1858 p22	18:58	-22:39	99	5m, 15m	just in x-ray now
121	COMP			↑		
122-123	Ferrel 10	23:17	-05:26	56	2m	PA=1
124	COMP			↑		
125	163m 219	00:40	+41:11	57	5m	
126	COMP			↑		
127	M32	00:40	+40:35	59	30s	
128	COMP			↑		
129	a119-232	00:42	-02:15	64	10m	
130	COMP			↑		
131	270	01:02	-01:51	64	7m	faint comp to E
132	COMP			↑		
133	231	00:52	-01:52	64	7m	
134	COMP			↑		
135	229	00:53	-10:53	64	4m	
136	COMP			↑		
137	225	01:03	-02:13	64	12m	near spiral
138	COMP			↑		
139	233	00:45	-03:01	64	7m	
140	COMP			↑		

60 inch Telescope Log

Observer: PB

PI: Ken

Spectrograph: FAST

Grating: 300R

Date: 10/11/99

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
141	a119-238	00:46	-04:11	64	5m	
142	COMP			↑		
143	240	00:54	-03:43	64	5m	
144	COMP			↑		
145	244	00:55	-05:10	64	7m	
146	COMP			↑		
147	235	01:00	-04:33	64	8m	em
148	COMP			↑		
149	234	01:00	-04:48	64	6m	
150	COMP			↑		
151	236	01:05	-10:53	64	12m	
152	COMP			↑		
153	237	00:59	-02:47	64	10m	
154	COMP			↑		
155	241	00:48	-10:34	64	4m	
156	COMP			↑		
157	239	01:03	-03:59	64	4m	
158	COMP			↑		
159	243	01:11	-02:09	64	4m	
160	COMP			↑		
161	242	01:07	-10:40	64	4m	
162	COMP			↑		
163	247	01:06	-10:15	64	4m	
164	COMP			↑		
165	244	00:59	-10:32	64	5m	
166	COMP			↑		
167	245	00:46	-10:00	64	5m	good me
168	COMP			↑		
169	246	00:50	-04:17	64	5m	
170	COMP			↑		

60 Inch Telescope Log

Observer: PB  
 PI: Ken & Huchra & Falco

Spectrograph: FAST  
 Grating: 300R  
 Date: 10/11/99

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
171	a119_248	00:53	-03:33	64	5m	
172	COMP			↑		
173	250	00:47	-04:25	64	10m	
174	COMP			↑		
175	251	00:59	-02:59	64	5m	
176	COMP			↑		
177	252	01:01	-03:06	64	6m	
178	COMP			↑		
179	253	01:04	-04:18	64	7m	nice.
180	COMP			↑		
181	254	01:04	-04:15	64	4m	
182	COMP			↑		
183	255	00:57	+10:25	64	5m	
184	COMP			↑		
185	256	00:58	-01:49	64	5m	
186	COMP			↑		
187	01067p3527	01:09	+35:43	84	2m	nice bright gal <sup>blue shifted</sup> <sub>Pete And</sub>
188	COMP			↑		
189	032407p1745	03:24:07	+17:45:11.5	84	10m	USB em
190	COMP			↑		
191	ZM022118.5	02:21	+01:44	68	3m	
192	COMP			↑		
193	ZM022155.9	02:21	+15:34	68	5m	
194	COMP			↑		
195	ZM022358.4	02:23	+14:20	68	4m	
196	COMP			↑		
197	ZM022709	02:27	+21:59	68	3m	
198	COMP			↑		
199	ZM022920.3	02:29	+19:14	68	6m	
200	COMP			↑		

60 inch Telescope Log

Observer: PB

PI: Calvet

Spectrograph: FAST

Grating: 3002

Date: 10/11/99

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
201	quasar 50597	05:27	-01:07	112	7m	PA = -30 ↓
202	COMP			↑		
203	quasar 642315	05:27	-02:45	112	8m	PMS
204	COMP			↑		
205	quasar 1544661	05:30	-00:52	112	5m	
206	COMP			↑		
207	quasar 1513457	05:37	-01:55	112	10m	
208	COMP			↑		
209	quasar 1542416	05:33	-00:21	112	5m	
210	COMP			↑		
211	quasar 1538773	05:32	-02:00	112	4m	PA = -15 ↓
212	COMP			↑		
213	quasar 1546882	05:32	-00:34	112	8m	ok!
214	COMP			↑		
215	47440	05:33	-00:42	112	10m	
216	COMP			↑		
217	48418	05:34	-00:47	112	5m	
218	COMP			↑		
219	48515	05:34	-00:31	112	6m	
220	COMP			↑		
221	48831	05:34	-00:44	112	12m	PA = 0 ↓
222	COMP			↑		
223	48479	05:34	-00:58	112	5m	
224	COMP			↑		
225	49644	05:35	-00:43	112	6m	
226	COMP			↑		
227	49680	05:35	-00:50	112	7m	
228	COMP			↑		
229	55682	05:32	-01:13	112	6m	
230	COMP			↑		

60 inch Telescope Log  
 Observer: PB  
 PI: Calvet  
 Spectrograph: F15T  
 Grating: 300L  
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
231-2	MROri	05:32	-05:23	89	1m, 7m	PA=0
233	COMP			↑		lots of lines
234-236	MVORi	05:32	-05:22	89	90s, 4m	extended nebulous Myz
237	COMP			↑		bright background
238-240	CGEri	05:35	+04:49	89	5s-35s	
241	COMP			↑		
242-243	Hiltner 600	06:12	+02:11	56	45s	PA=5
244	COMP			↑		
245	Yng 102B	05:01	+57:45	56	2m	PA=90
246	COMP			↑		
247-248	HD 21389	05:29	+58:52	57	2s	
250	COMP			↑		
251-253	HD 22951	05:42	+57:57	57	2s	
254	COMP			↑		
255-257	HD 24131	05:51	+54:21	57	2s	
258	COMP			↑		
259-261	HD 23948	05:45	+74:20	57	2s	
262	COMP			↑		clear 2 diam!
263-265	HD 52997	06:57	+06:22	57	4s	
266	COMP			↑		
267-276	BIAS				0s	
277-286	FLAT				7s	
287-296	BIAS				0s	
297-306	FLAT				14s	
307-316	DARK				20m	

236 - could NOT background subtract  
 MVORi - em lines across slit -  
 be careful of subtraction

done ~ 240?