

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>6914</u>	
Observer: <u>P. Berlin</u>			Grating: <u>3000, 3" slit</u>			
PI: <u>All</u>			Date: <u>1/18/99</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-8	DARK				15m	
9-20	BLAS				6s	clear skies
21-30	FLAT				6s	clouds to far W
31-40	BLAS				6s	
41-50	FLAT				12s	
51-55	sky			57	2s	
56	COMP			↑		
57-59	HD 219734	23:47	+460	57	1s	
60	COMP			↑		
61-67	HD 2053	02:25	+718	57	4s	
68	COMP			↑		
69-67	HD 225094	00:03	+6388	57	4s	
68	COMP			↑		
69-71	HD 1845	00:27	+5517	57	6s	
72	COMP			↑		
73-75	HD 2063	02:25	+5250	57	4s	
76	COMP			↑		
77-77	HD 227501	23:45	+6272	57	4s	
80	COMP			↑		
81-83	HD 217086	22:51	+6227	56	4s	
84	COMP			↑		
85-86	M32	00:39	+79	57	30s	
87	COMP			↑		
88	MRK 335	00:03	+198	6	3m	
89	COMP			↑		
90	N7469	23:03	0852	6	2.5m	
91	COMP			↑		
92	Faye 110	23:17	-0576	56	2m	
93	COMP			↑		

60 inch Telescope Log

Observer: PD

PI: Huchra

Spectrograph: FAST

Grating: 300R

Date: 1/18/99

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
94	AKn 524	22:40	+29:27	6	5m	
95	WMP			†		
96	18m 213	00:43	+41:07	57	5m	
97	WMP			†		
98	ZM 010428.9	01:04	+19:20	68	4m	
99	WMP			†		
100	ZM 011002.5	01:10	+22:41	68	7m	
101	WMP			†		
102	ZM 011352.9	01:13	+19:10	68	6m	
103	WMP			†		
104	ZM 010653.0	01:05	+18:55	68	10m	close EW pair bin by 2
105	WMP			†		
106	ZM 010306.9	01:03	+20:57	68	4m	
107	WMP			†		
108	ZM 012218.6	01:22	+19:33	68	4m	
109	WMP			†		
110	ZM 021536	01:21	+19:44	68	5m	
111	WMP			†		
112	ZM 011404.4	01:14	+18:23	68	5m	
113	WMP			†		
114	ZM 024939.5	02:49	+21:12	68	2m	* to for E
115	WMP			†		
116	ZM 025017.2	02:50	+18:44	68	4m	
117	WMP			†		
118	ZM 024928.4	02:49	+21:56	68	4m	
119	WMP			†		
120	ZM 024436	02:41	+22:27	68	5m	
121	WMP			†		
122	ZM 024711.0	02:47	+21:54	68	5m	
123	WMP			†		

60 inch Telescope Log

Observer: PB

PI: Huchra & Kinshar & Rimas

Spectrograph: FAST

Grating: 300R

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
124	ZM024939.9	02:49	+18:15	68	5m	
125	WMP			↑		
126	ZM024549.7	02:45	+18:55	68	4m	
127	WMP			↑		
128	ZM033007.5	03:30	+36:40	68	7m	
129	WMP			↑		
130	ZM033257.0	03:32	+33:27	68	4m	agn
131	WMP			↑		
132	ZM030750.7	03:03	+12:01	68	4m	
133	WMP			↑		
136	ZM032510.7	03:25	+30:46	68	15m	fruit
137	WMP			↑		reflection neb + star
138-140	CICan	04:19	+55:59	107	2, 20, 90s	
141	WMP			↑		
142	G576-142	06:55	+55:28	64	4m	
143	WMP			↑		
144	-141	06:58	+57:29	64	4m	
145	WMP			↑		
146	-161	06:55	+56:04	64	5m	
147	WMP			↑		
148	SN1988fa	06:42	+11:25	2	20m	
149	WMP			↑		
150	G576-130	07:10	+55:13	64	5m	
151	WMP			↑		
152	178	07:09	+54:57	64	5m	
153	WMP			↑		
154	139	07:10	+56:04	64	5m	
155	WMP			↑		
156	146	07:01	+56:30	64	4m	
157	WMP			↑		

60 inch Telescope Log

Observer: PB
 PI: Rines

Spectrograph: FAST
 Grating: 300P
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
158	a576-151	07:12	+58:57	64	5m	
159	COMP			f		
160	-156	07:10	+58:00	64	5m	
161	COMP			f		
162	-129	07:30	+58:28	64	5m	+ to W wk
163	COMP			f		
164	-131	07:26	+58:38	64	5m	
165	COMP			f		
166	-132	07:29	+58:28	64	5m	
167	COMP			f		
168	133	07:32	+58:16	64	6m	
169	COMP			f		
170	135	07:27	+58:24	64	6m	
171	COMP			f		
172	136	07:29	+58:11	64	8m	binby 2 PA=80 o. Ed comp em
173	COMP			f		
174	137	07:23	+58:58	64	5m	
175	COMP			f		
176	138	07:34	+58:00	64	4m	
177	COMP			f		
178	143	07:26	+58:41	64	6m	
179	COMP			f		
180	144	07:34	+58:38	64	5m	
181	COMP			f		
182	146	07:18	+58:43	64	7m	em
183	COMP			f		
184	147	07:41	+58:13	64	4m	+ to W
185	COMP			f		
186	148	07:38	+58:57	64	5m	
187	COMP			f		

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Observer: <u>PB</u>			Grating: <u>300R</u>			
PI: <u>Rines</u>			Date: <u>1/18/99</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
188	9576-149	07:40	+54:26	64	8m	
189	COMP			f		
190	152	07:40	+54:51	64	5m	
191	COMP			f		
192	150	07:15	+54:59	64	5m	
193	COMP			f		
194	155	07:48	+54:41	64	5m	
195	COMP			f		
196	153	07:31	+55:15	64	5m	
197	COMP			f		
198	154	07:36	+53:02	64	5m	
199	COMP			f		
200	157	07:41	+54:54	64	5m	
201	COMP			f		
202	158	07:15	+57:59	64	5m	
203	COMP			f		
204	159	07:29	+57:47	64	5m	
205	COMP			f		
206	160	07:57	+54:54	64	6m	
207	COMP			f		
208	161	07:32	+55:11	64	5m	
209	COMP			f		
210	163	07:47	+54:25	64	5m	
211	COMP			f		
212	166EW	07:18	+59:40	64	5m	bmbz E+W gals
213	COMP			f		
214	165	07:38	+56:57	64	8m	
215	COMP			f		
216	167EW	07:34	+59:00	64	7m	E+W gals
217	COMP			f		

60 inch Telescope Log

Observer: PB

PI: Rines

Spectrograph: FAST

Grating: 3002

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
218	9576-168	07:32	+58:13	64	6m	nice sky
219	OMP			f		
220	169	07:41	+55:02	64	7m	
221	OMP			f		
222	170	07:33	+54:47	64	5m	
222.1	OMP			f		
225	171	07:38	+58:59	64	5m	
226	OMP			f		
227	172	07:39	+55:07	64	5m	
228	OMP			f		
229	173	07:03	+54:38	64	5m	
230	OMP			f		
231	177	07:08	+54:16	64	5m	bright & off slit to W
232	OMP			f		
233	175ED	07:29	+56:29	64	8m	E-W gals bin by 2
234	OMP			f		
235	176	07:41	+55:27	64	4m	* to E out of slit
236	OMP			f		
237	174	07:35	+55:24	64	6m	
238	OMP			f		
239	178	07:27	+57:14	64	7m	em
240	OMP			f		
241	179	07:30	+58:41	64	6m	
242	OMP			f		
243	180	07:33	+56:55	64	5m	
244	OMP			f		
245	181	07:32	+58:36	64	4m	
246	OMP			f		
247	182	07:31	+58:43	64	5m	
248	OMP			f		

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Observer: <u>PB</u>				Grating: <u>300R</u>		
PI: <u>Huchra & Tustin</u>				Date: <u>1/18/99</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
249.250	Fcsp 34	10:43	+16	56	90s	
251	COMP			↑		clouds getting closer
252	ZM1241545.1	12:45	+17:07	68	5m	
253	COMP			↑		
254	ZM124135.9	12:41	+16:20	68	4m	
255	COMP			↑		
256	ZM130005.5	13:00	+16:32	68	6m	± to W
257	COMP			↑		
258	ZM130646.3	13:06	+16:44	68	6m	162
259	COMP			↑		
260	ZM130333.1	13:03	+16:50	68	4m	403
261	COMP			↑		
262	A1644 DSU01	12:55	-17:08	81	7m	
263	COMP			↑		
264	Z	12:53	-17:43	81	8m	pec em
265	COMP			↑		
266	S	12:54	-17:40	81	5m	
267	COMP			↑		
268	Z7	12:56	-17:21	81	5m	
269	COMP			↑		
270	Z4	12:54	-17:25	81	4m	
271	COMP			↑		
272	Z2	12:51	-17:23	81	4m	clouds in N+W
273	COMP			↑		
274	Z3	12:52	-17:21	81	6m	
275	COMP			↑		
276	SN1998E	13:17	-16:33	Z	15m	PA=-15 young type II
277	COMP			↑		
278279	H244	13:21	+16:23	56	2m	PA=70
280	COMP			↑		

60 inch Telescope Log

Observer: PB

PI: Huchra

Spectrograph: FAST

Grating: 300, 3" slit

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
281	N4154	12:08	+75:41	6	30s	clouds.
282	COMP			T		
283	N4251	12:20	+44:48	6	2m	
284	COMP			T		
285	MRC279	13:51	+69:23	6	3m	
286	COMP			T		
287	N5548	14:15	+75:22	6	3m	
288	COMP			T		
289	ZM170518.1	13:05	+16:34	68	8m	
290	COMP			T		
291	ZM133945.4	13:39	+16:27	68	5m	
292	COMP			T		stopped by clouds!
293-302	BIAS				0s	
303-312	FLAT				6s	
313-322	BIAS				0s	
323-332	FLAT				12s	
333-337	DARK					