

## 60 inch Telescope Log

 Observer: P Berlin  
 PI: Kemp & Wilkes & Geller

 Spectrograph: FAST  
 Grating: 3000, 5" slit, binby, 4  
 Date: 4/10/96
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS			0	0s	clouds to SE
11-20	FLAT			0	6s	
21-25	SKY			0	2s	
26	COMP			↑	5s	
27-36	BIAS			2	0s	bin by 2 for SN obs
37-46	FLAT			2	12s	"
47-50	HD48329	06:43	+25:07	0	0.2	bin by 4 ↓
51	COMP			↑	0	
52-55	HD42543	06:12	+22:54	0	2s	
56	COMP			↑		
57-60	HD36371	05:32	+12	0	2s	
61	COMP			↑		
62-66	HD52971	06:	+27	0	5s	
67	COMP			↑		
68-73	UUAur	05:21	+32:30	12	248.16	
74				↑		
75-78	BSMan	07:25	-03:35	12	103.30	
79	COMP			↑		
80-81	Hiltner 60	06:42	+02:11	0	60s	
82	COMP			↑		
83	MRK 421	11:01	+38:28	6	4m	campaign: 48", X-ray, GRD, etc
84	COMP			↑		
85	N4151	12:08	+37	6	35s	
86	COMP			↑		
87	320.071198	12:26	+34:15	3	6m	
88	COMP			↑		
89	320.078202	12:26	+34:20	3	10m	Ha @ pix 2020 - weak
90	COMP			↑		
91	320.078232	12:11	+34:20	3	8m	
92	COMP			↑		

gal 8.0

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>4521</u>
Observer: <u>PB</u>		Grating: <u>300R</u>		Date: <u>4/10/96</u>		
PI: <u>Geller</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
93	320.079806	12:31	+31:26	3	6m	poor seeing
94	COMP			↑		
95	320.079955	12:02	+31:27	3	9m	
96	COMP			↑		
97	320.079910	12:13	+31:29	3	8m	em
98	COMP			↑		
99	320.079964	12:06	+31:25	3	4m	
100	COMP			↑		
101	320.079922	12:05	+31:27	3	5m	
102	COMP			↑		
103	320.078837	12:06	+31:24	3	6m	H <sub>2</sub>
104	COMP			↑		
105	320.078852	12:10	+31:24	3	6m	em p.
106	COMP			↑		
107	320.080109	12:25	+31:29	3	6m	
108	COMP			↑		
109	320.080208	12:12	+31:30	3	6m	Nice face on spiral
110	COMP			↑		
111	320.080660	12:10	+31:32	3	5m	
112	COMP			↑		seeing better
113	320.080522	12:29	+31:29	3	4m	
114	COMP			↑		
115	320.081574	12:29	+31:35	3	5m	
116	COMP			↑		
117	320.081676	12:28	+31:35	3	5m	
118	COMP			↑		
119	320.082365	12:21	+31:40	3	5m	H <sub>2</sub> ; COMP 3" to E (HL7)
120	COMP			↑		
121	320.08270	12:23	+31:46	3	7m	
122	COMP			↑		

1654 = 6014A  
 1655 2422

60 inch Telescope Log

Observer: PB  
 PI: Kirshner & Geller

Spectrograph: FAST  
 Grating: 300L  
 Date: 4/10/96

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
123	SN1996V	11:21:31	+02:48:41	2	15m	bin by 2 galaxy - Ho
124	COMP			↑	8s	↑ Type I
125	320.083937	12:25	+31:47	3	6m	bin by 4 ↓ NGC 3041
126	COMP			↑		
127	320.084976	12:18	+31:52	3	6m	
128	COMP			↑		
129	320.086160 EW	12:24	+31:56	3	9m	3 galaxies on slit E, W, middle
130	COMP			↑		
131	320.086276	12:13	+31:58	3	6m	$\begin{matrix} \uparrow & \uparrow \\ E & W \end{matrix}$
132	COMP			↑		new noise pattern on tv
133	320.086888	12:09	+32:00	3	5m	West
134	COMP			↑		
135	320.087079	12:10	+32:01	3	5m	Middle } well separated
136	COMP			↑		
137	320.087207	12:10	+32:01	3	6m	East } em
138	COMP			↑		
139	320.087649	12:20	+32:05	3	8m	em
140	COMP			↑		
141	320.088043	12:05	+32:07	3	6m	seemly worse again
142	COMP			↑		
143	320.088841	12:23	+32:04	3	6m	em
144	COMP			↑		
145	320.089641	12:08	+32:13	3	10m	Finishes the plate! em
146	COMP			↑		
147	322.006872	15:13	+76:28	3	5m	
148	COMP			↑		
149	322.006186	12:58	+26:25	3	10m	
150	COMP			↑		
151	322.021997	12:57	+27:25	3	5m	
152	COMP			↑		

128 = 128.320.086160 W  
 130 = 130.320.086160 E

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>4523</u>	
Observer: <u>PB</u>				Grating: <u>300</u>			
PI: <u>Cutter</u>				Date: <u>4/10/96</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments	
153	322.02089	12:57	+27:29	3	3m		
154	COMP			↑			
155	322.02227	13:08	+27:30	3	3m		
156	COMP			↑			
157	322.022343	13:00	+27:30	3	8m	COMP GAL to E	
158	COMP			↑			
159	322.023015	12:59	+27:32	3	5m		
160	COMP			↑			
161	322.023572	13:17	+27:34	3	3m	em	
162	COMP			↑			
163	322.025016	13:00	+27:41	3	6m	poor seeing	
164	COMP			↑			
165	322.025882	12:59	+27:44	3	5m		
166	COMP			↑		Moon's up	
167	322.026244	13:13	+27:45	3	4m	em	
168	COMP			↑			
169	322.026471	12:59	+27:46	3	4m		
170	COMP			↑			
171	322.026671	12:58	+27:47	3	4m	rich field!	
172	COMP			↑			
173	322.027077	12:58	+27:48	3	3m		
174	COMP			↑			
175	322.027225	12:58	+27:48	3	4m		
176	COMP			↑			
177	322.027529	12:57	+27:49	3	3m		
178	COMP			↑			
179	322.027889	12:55	+27:50	3	5m		
180	COMP			↑			
181	322.027923	12:56	+27:50	3	5m		
182	COMP			↑			

60 inch Telescope Log

Observer: PBPI: CarterSpectrograph: FASTGrating: 300RDate: 4/10/96Page: 4524

Number	Object	R.A.	Dec.	L/R	Exp	Comments
183	322.028367	12:57	+27:52	3	5m	
184	COMP			↑		
185	322.028374	12:55	+27:51	3	8m	
186	COMP			↑		
187	322.028471	12:57	+27:52	3	4m	
188	COMP			↑		
189	322.02859	13:01:26	+27:53:11.6	3	3m	nucleus nice...
190	COMP			↑		
191	322.028808	12:59	+27:54	3	6m	
192	COMP			↑		
193	322.029815N	12:59	+27:57	3	4m	heart of the cluster ↓
194	COMP			↑		
195	322.029855	12:59	+27:56	3	4m	
196	COMP			↑		
197	12596p2757	12:59:36	+27:57:35	3	3m	central cD
198	COMP			↑		
199	322.030095N	13:00	+27:59	3	4m	
200	COMP			↑		
201	322.030439	13:00	+28:00	3	3m	
202	COMP			↑		
203	322.030888	13:07	+28:02	3	8m	em
204	COMP			↑		
205	322.032069	13:02	+28:06	3	7m	
206	COMP			↑		
207	322.032396	12:58	+28:07	2	4m	
208	COMP			↑		
209	322.032804	12:58	+28:09	3	6m	10" N of another brighter galaxy
210	COMP			↑		
211	322.033316	12:59	+28:10	3	5m	
212	COMP			↑		

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>4525</u>	
Observer: <u>PB</u>				Grating: <u>300L</u>			
PI: <u>Geller &amp; Huchra &amp; Kenyon</u>				Date: <u>4/10/96</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments	
213	322.053349	12:58	+28:10	3	8m		
214	COMP			↑			
215	322.053313	12:57	+28:11	3	4m		
216	COMP			↑			
217	322.053361	13:02	+28:13	3	4m		
218	COMP			↑			
219-222	TXCVn	12:47	+28:45	12	10s, 60s		
223	COMP			↑			
224	323.059438	13:33	+30:25	3	8m		
225	COMP			↑			
226	323.020182	13:27	+27:36	3	5m	em	
227	COMP			↑			
228	323.066098	13:24	+30:58	3	4m		
229	COMP			↑			
230	323.066016	13:21	+30:58	3	5m	em	
231	COMP			↑			
232	323.066178	13:36	+30:59	3	6m	em	
233	COMP			↑			
234	NS179	14:05	+65:42	1	4m		
235	COMP			↑			
236	I1099	14:39	+62:01	1	4m		
237	COMP			↑			
238	I1099	15:06	+56:31	1	5m	Susan - good luck w/	
239	COMP			↑		this one: weak H $\alpha$ per 2139	
240	15016 p6828	15:01	+68:17	1	4m	lines look OK	
241	COMP			↑			
242	15020 p7005	15:02	+69:54	1	5m	em	
243	COMP			↑			
244	15020 p6137	14:59	+51:25	1	4m		
244	COMP			↑			

60 inch Telescope Log

Observer: PB  
 PI: Wilkes/Kearns

Spectrograph: FAST

Grating: 300R

Date: 4/10/86

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
246	ISO60p8025	15:05	+80:47	1	8m	weak em
247	COMP			↑		
248	MRK279	17:51	+65:33	6	90s	
249	COMP			↑		
250	NSS48	14:15	+75:22	6	2m	
251	COMP			↑		
252-255	TCrB	15:59	+25:55	12	8,30s	
256	COMP			↑		
257-259	CIC <sub>2</sub>	17:50	+25:41	12	20s, 1m	5s
260	COMP			↑		
261-265	HD92281	20:10	40:07	0	5s	
266	COMP			↑		
267-269	CHC <sub>2</sub>	19:24	+50:14	12	1,520	
270				↑		
271-273	BFC <sub>2</sub>	19:23	+29:40	12	2,5,60	
274	COMP			↑		
275-277	HD180605	19:16	+38	0	1s	
278	COMP			↑		clear @ dawn
279-281	HD181475	19:20	-4:30	0	1s	
282	COMP			↑		
283-292	BIAS			0	0s	
293-302	FLAT			0	6s	