

60 inch Telescope Log

Observer: Falco

PI: Cambro

Spectrograph: FACT

Grating: 300 L/3"

Date: 2/1/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS		PA 90		0	tilt 610, bin x 4
11-20	FLAT				7	
21-31	Coma					foc = 1000, erased all these
32-40	DARK				900	tracking off
41-45	sky				~	D. Wavelength
46-51	HeNeAr				5	6 done weird, rec'd TR
52	PG 0310+149				300	std seeing 2.5"
53	HeNeAr			↑	5	
54	PG 0310				600	
55	HeNeAr			↑	5	
56	HeNeAr			↓	5	
57	SN 2000F				1200	
58	HeNeAr			↑	5	
59	UVAr	05 21 49	32 30 51		30	
60	HeNeAr	04 39 45	31 39 52	↑	5	20.0 close, wind max
61	B/G Gem	bin x 2			300	21.50 open, wind x
62	HeNeAr	↓		↑	5	seeing patch
63-67	BIAS				0	do these while seeing
68-72	FLAT				15	improves
73	BX Mon	bin x 4			5	
74	HeNeAr			↑	5	
75	BX Mon				60	
76	HeNeAr			↑	5	
77	Hickson 600				30	
78	HeNeAr			↑	5	
79	HeNeAr			↓	5	
80	SN 2000B				1200	bad seeing
81	HeNeAr			↑	5	try brighter targets...
82	07490 + 6401				450	
83	HeNeAr			↑	5	52 38

59 - RA + DEC are same as RA + DEC of 60
 BUT TRA + TDEC of 59 + 60
 ARE DIFFERENT.

Do not have files 21-31

60 inch Telescope Log

Observer: Felco

PI: Con. Co

Spectrograph: FAST

Grating: 300 + 1/3"

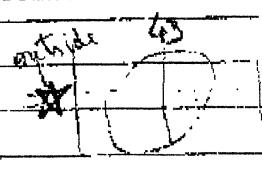
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Date: 2/1/06

Number	Object	H.A.	Dec.	L/R	Exp	Comments
84	07539+1808				450	
85	HeNeAr			↑	5	
86	07543+2354				360	
87	HeNeAr			↑	5	
88	07481+6052				450	winds high
89	He Ne Ar			↑	5	
90	07528+2701				480	Op
91	HeNeAr			↑	5	52,61 12:10 shutdown, winds done suffers too much reopen 3:55 seeing still has wind do only ~ brights!
92	TXCVn				5	
93	He Ne Ar			↑	5	
94	TXCVn				60	
95	HeNeAr			↑	5	
96	Feige 66				30	
97	He Ne Ar			↑	5	
98	12183+1746				400	
99	He Ne Ar			↑	5	
100	12300+4259				400	
101	He Ne Ar			↑	5	
102	N4486A				300	star?
103	He Ne Ar			↑	5	
104	nrsg 241-052				800	
105	HeNeAr			↑	5	
106	nrsg 302-106				600	
107	He Ne Ar			↑	5	
108	nrsg 302-108				600	
109	He Ne Ar			↑	5	
110	134212+35260	a			1200	not worth doing
111	He Ne Ar			↑	5	worse of these tonight

60 inch Telescope Log
 Observer: Falco
 PI: Com Sm
 Spectrograph: FAST
 Grating: 300 L / 3"
 Date: 2/1/00
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
112	N4559				300	
113	HeNeAr			↑	5	outside
114	N5474				400	
115	HeNeAr			↑	5	
116	HD 154791				5	
117	HeNeAr			↑	5	
118	HD 154791				30	
119	HeNeAr			↑	5	
120	14076+1756				400	
121	HeNeAr			↑	5	
122	H244				180	std done!
123	HeNeAr			↑	5	
124-133	BIAS				0	
134-143	FLAT				7	



60 inch Telescope Log
 Observer: PR
 Pl: Cambridge
 Spectrograph: FAST
 Grating: 3001/3"
 Date: 2/2/00
 Page: 8213

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-10	BIAS				0	
11-20	FLAT				7	clear, windy
21-25	DARK				900	
26-35	BIAS				0s	
31-45	FLAT				17s	
46-50	sky	zenith		57	2s	
51	COMP			r		
52-53	M31	0440	-40	57	30s	
54	COMP			r		
55-56	M32	0440	-10	57	30s	
57	COMP			r		damaged crash
58	ZM100620	07	-06	68	6m	seeing poor
59	COMP			r		
60	ZM101004	0428	-04	68	4m	
61	COMP			r		
62	Q406-173	0417	-1045	67	5m	
63	COMP			r		
64	170	0425	-1110	67	5m	bubbling; * to W
65	COMP			r		
66	166	0444	-1556	67	10m	
67	COMP			r		
68	171	0443	-1557	67	4m	
69	COMP			r		
70	172	0426	-0909	64	7m	POOR
71	COMP			r		
72	SN2000D	03	-38	2	20m	PA-85
73	COMP			r		
74	SN2000F	03	+4	2	20m	PA-87
75	COMP			r		

60 inch Telescope Log; Spectrograph: FAST
 Observer: PB Grating: 3002 Page: 8214
 PI: And Date: 2/2/00

Number	Object	R.A.	Dec.	L/R	Exp	Comments
76	HZM	04:41	+11	S6	5m	Windy, poor seeing -
77	WMP			f		
78-79	DeGen	06:03	+27	100	1/2/15m	
80	WMP			f		
81	SSZ 6164-256	11:25	-07:08	59	15m	
82	WMP			f		
83	Z58	11:26	-07:15	59	15m	high wind
84	WMP			f		
85	Z59	11:26	-07:04	59	20m	
86	WMP			f		wind delay - close
87	Z55	11:25	-07:02	59	6m	
88	WMP			f		
89	Z51	11:25	-07:51	59	15m	
90	WMP			f		
91	Z50	11:24	-07:27	59	15m	wk but em
92	WMP			f		
93	Z54	11:25	-07:19	59	15m	
94	WMP			f		
95	Z46	11:24	-07	59	15m	
96	WMP			f		sky much better!
97	Z63	11:27	-07:27	59	15m	
98	WMP			f		
99	Z28	11:25	-06	59	12m	
100	WMP			f		
101	Z29	11:25	-07:31	59	15m	
102	WMP			f		
103	nrq6177.249	12:08	+19:38	59	12m	
104	WMP			f		
105	Z52	12	+15	59	15m	
106	WMP			f		

60 inch Telescope Log
 Observer: PB
 PI: Ande
 Spectrograph: FAST
 Grating: 3000
 Date: 2/200
 Page: 8215

Number	Object	R.A.	Dec.	L/R	Exp	Comments
107	M36	12:06	+20:22	S9	15m	good sky now
108	WMP			f		
109	356N	12:06	+20:26	S9	2m	North comp
110	356S	12:06	+20:26	S9	5m	South comp
111	WMP			f		
112	360	12:06	+20:35	S9	10m	
113	WMP			f		
114	361	12:06	+19:44	S9	11m	
115	WMP			f		
116	369	12:06	+20:51	S9	12m	
117	WMP			f		
118	366	12:06	+20:27	S9	6m	
119	WMP			f		
120	370	12:07	+20:17	S9	11m	
121	WMP			f		
122	M24	13:21	+4:3	S4	2m	
123	WMP			f		
124	M48	12:58	+21:35	S7	2m	
125	WMP			f		
126-135	DEAS				03	
136-145	FLAT				03	
146-155	DEAS				03	
156-165	FLAT				146	

60 inch Telescope Log.

Observer: P. Bermal
 PI: Scott / Paul Groot

Spectrograph: FAST
 Grating: 300L; 1200L
 Date: 2/3/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
110	BIAS	special	bmainy		0s	For Paul Groot
11-26	FLAT	1200L	1.5" slit		8m	"
27-40	BIAS				0s	normal setup ↓
41-50	FLAT				7s	
51-60	BIAS				0s	
61-70	FLAT				14s	
71-75	sky	zenith		57	2s	
76	COMP			↑		
77-79	H22623	0202	+6256	57	5s	
80	COMP			↑		
81-82	M32	0040	+40	57	30s	clouds.
83	COMP			↑		
84-85	B6Gem	06103	+27	100	1m	
86	COMP			↑		
87	H7214	0441	+41	56	7m	
88	COMP			↑		
89	B6Gem	06	+27	100	6m	bmainy root 2720x121x1
90	COMP			↑	60s	1200L @ 5050 Å 1.5" slit focus=1125
91	COMP			↓	90s	focus=1125
92-97	CNOri	0552	-0525	116	260s	HA = -1.40
98	COMP			↑		
99-104	CNOri	"	"	116	260	thin clouds
105	COMP			↓		
106-111	CNOri	"	"	116	260	
112	COMP			↓		
113-118	CNOri	"	"	116	260	clearing
119	COMP			↓		

240
1.5"

60 inch Telescope Log

Observer: PB
 PI: Paul Groot

Spectrograph: FAST
 Grating: 1200Q
 Date: 2/3/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
120-125	CNOXi	05:52	05	116	260s	1200Q; 1.5" slit
126	COMP			↓	90s	
127-132	CNOXi	"	"	116	260	
133	COMP			↓		
134-139	CNOXi	"	"	116	260	
140	COMP			↓		
141-146	CNOXi	"	"	116	260	
147	COMP			↓		
148-153	CNOXi	"	"	116	260	HX = 2.40 time = 4h 20m
154	COMP			↑		
155	COMP			↓	90s	
156-161	UGem	07:8	+220	116	270s	HX = +45min 12:10
162	COMP	↓	↓	↓		
163-168	UGem			116	270	
169	COMP			↓		
170-175	UGem			116	270	
176	COMP			↓		
177-182	UGem			116	270	
183	COMP			↓		
184-189	UGem			116	270	
190	COMP			↓		
191-196	UGem			116	270	
197	COMP			↓		
198-203	UGem			116	270	
204	COMP			↓		
205-210	UGem			116	270	
211	COMP			↓		
212-217	UGem			116	270s	HX = 5:15 time = 4.5h
218	COMP			↑		

60 inch Telescope Log

Observer: PB

PI: Nelson

Spectrograph: FAST

Grating: 1200 + 600

Date: 2/3/00

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
219	Edge 34	10:31	+36	SC/116	3m	1200 @ 1.5" slit
220	COMP			↑		6m by 9 not
221	H244	13:21	+76	SC/70	4m	600 @ 4.4; 3" slit ↓
222	COMP			↑		focus = 1100
223, 225	VCC 781	12:22	+1259	70	20m	PA=70 ☉
224, 226	COMP			↑		
227	N 5596	14:22	+37-07	70	20m	PA=100
228	COMP			↑		
229	N 5966	15:35	+39.47	70	15m	PA=90
230	COMP			↑		
231, 245	FLAT				20s	
246, 255	BDS				0s	clear @ dawn ~

60 inch Telescope Log
 Observer: P Berlin
 PI: JPH
 Spectrograph: FAST
 Grating: 300R-600-1200
 Date: 2/4/00
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Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-5	BIAS				0s	
6-15	FLAT	(for Nelson)			24s	600R @ H α ; 3" slit
16-25	FLAT	(for Scott)	06h00m		2.5m	1200R @ H α ; 1.5" slit PA=685.0
26-37	test					300R; 3" slit; normal setup
38-47	BIAS				0s	
48-57	FLAT				7s	
58-67	BIAS				0s	
68-77	FLAT				14s	
78-82	sky	zenith		57	2s	
83	WMP			†		
84-86	HD 12623	02	+60	57	5s	
87	WMP			†		
88-91	M31	00:40	+40	57	30s	
90	WMP			†		
91-92	M32	00:40	+40	57	30s	
93				†		
94	ZM J010935	01:09	+06	68	45m	bright sky but looks ok
95	WMP			†		
96	ZM J011200	01:12	+05:44	68	3m	
97	WMP			†		
98	ZM J011217	01:12	+06:08	68	3m	
99	WMP			†		
100	ZM J011109	01:11	+05:59	68	3m	
101	WMP			†		
102	Faye 25	02:36	+05:15	81/70	5m	600R @ H α ; 3" slit PA=31
103	WMP			†		

60 inch Telescope Log,

Observer: PB

PI: Ken

Spectrograph: FAST

Grating: 600, 1200, 300

Date: 2/4/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
104	N1029	02:39	+10:47	70	20m	600L; 3" slit ↓
105	WMP			↑		fines=1100; PA=70
106	N1153	02:58	+03:21	70	20m	+ to SW
107	WMP			↑		
108	N1211	03:06	+00:47	70	20m	delay; bad cards
109	WMP			↑		PA=90
110-111	BGchem 1200	06:05	+21:41	100	10m, 3m	1200L; 1.5" slit tilt=65
112	WMP			↑		fines=1100
113	a 496 174	04:16	+3:23	64	15m	300L; 3" slit normal set up ↓
114	WMP			↑		
115	35	04:16	+5:07	64	20m	V. LSD; 11k @ PA 2044
116	WMP			↑		+ emission @ same az off to W alt
117	169	04:33	+09:06	64	12m	
118	WMP			↑		
119	175	04:25	+2:52	64	12m	
120	WMP			↑		
121	176	04:34	+11:53	64	5m	
122	WMP			↑		
123	177	04:44	+6:09	64	5m	
124	WMP			↑		
125	180	04:47	+6:37	64	7m	
126	WMP			↑		
127	179	04:47	+5:48	64	6m	
128	WMP			↑		
129-130	BGchem	06:05	+27	100	1m, 3m	
131	WMP			↑		

60 inch Telescope Log

Observer: PB

PI: Warren Bunn / Nelson C.

Spectrograph: FAST

Grating: 300L; 600L

Date: 2/4/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
132	SN2000C	07:36	+35:14	Z	20m	1.5" slit PA=90
133	COMP			↑		
134	CS45	08:44	+29:06	?	20m	3" slit; normal set-up ↓
135	COMP			↑		USB end etc /
136	C S10502	08:51	+29:11	?	20m	extra gal det to E USB
137	COMP			↑		
138	CS10505	08:51	+29:17	?	20m	
139	COMP			↑		all 4 of these have them
140	CS650	11:10	+29:06	?	20m	
141	COMP			↑		
142	SN1999gh	04:44	-21	Z	20m	-03 - PA
143	COMP			↑		
144	Fene34	10:36	+43	SG	90s	PA=50
145	COMP			↑		
146	Fene34	10:36	+43	SL/70	120s	600L; 3" slit ↓
147	COMP			↑		
148	N3599	11:15	+18:06	70	12m	PA=100
149	COMP			↑		
150	N4796	12:21	+06:39	70	20m	PA=0
151	COMP			↑		
152, 154, 156	VCC1614	12:32	+13:01	70	20m	PA=90
153, 155, 157	COMP			↑		
158, 160	VCC218	12:14	+12:34	70	20m	PA=55
159, 161	COMP			↑		
162	N5623	14:27	+33:15	70	20m	PA=25
163	COMP			↑		
164	N5631	14:26	-56:34	70	15m	PA=90
165	COMP			↑		

60 inch Telescope Log

Observer: PB

PI: Nelson

Spectrograph: FAST

Grating: 600L

Date: 2/4/00

Page: 8222

Number	Object	R.A.	Dec.	L/R	Exp	Comments
166	UGC 9519	14:46	+51:22	70	20m	PA=75 600L, 3" slit ↓
167	COMP			↑		
168	NS481	14:06	+50:43	70	20m	PA=100
169	COMP			↑		
170	NS424	14:02	+09:25	70	20m	PA=100
171	COMP			↑		
172	NG617	15:57	+05:59	70	20m	PA=-30
173	COMP			↑		
174	NS813	15:01	+01:42	70	15m	PA=-70
175	COMP			↑		
176	H244	13:21	+36	50/70	5m	PA=90
177	COMP			↑		
178-192	FLAT	(for Nelson)			24s	
193-202	BSAS				0s	
203-212	FLAT	(for SN)			25s	300L; 1.5" slit focus=1050 (for sn obs)
213-222	FLAT	(for combo)			14s	
223-232	FLAT	(for combo)			7s	
233-242	BSAS				0s	
243-252	DARK				20m	bimby 2
						clouds to N & down.

60 inch Telescope Log

Observer: P. Berlin

PI: _____

-Spectrograph: FAST

Grating: 3000

Date: 2/5/00

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	
11-20	BIAS				0s	
21-30	FLAT				7s	overcast skies
31-40	BIAS				0s	
41-50	FLAT				14s	
51-55	sky			57	2s	
56	COMP			r		
57-59	HIZ 7223	02:02	+62:56	57	5s	
60	COMP			r		
61-62	M31	00:40	+40	57	30s	
63	COMP			r		
64-65	M32	00:40	+40	57	30s	
66	COMP			r		
67	ZM30280	00:40	+40	57	2m	bright sky / clouds
68	COMP			r		
69	ZM301458	01:14	-07:39	60	2m	
70	COMP			r		clouds..
71	ZM304203	01:20	-06:49	64	35m	
72	COMP			r		
73	ZM302151	01:21	-07:18	68	2m	
74	COMP			r		
75	ZM303223	01:31	-04:10	68	2m	
76	COMP			r		
77	ZM30144 S	01:31	-07:35	68	2m	South comp
78	COMP			r		
79	ZM304539	01:45	-04:40	68	3m	
80	COMP			r		
81	022152P	02:21	+57:15	83	15m	
82	COMP			r		

60 inch Telescope Log

Observer: PB

PI: Prapp / Cabot

Spectrograph: F&S

Grating: 300L

Date: 2/5/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
83	022153p5705	02:21	+57:05	83	20m	lots of clouds.
84	WMP			f		
85	022151p5702	02:21	+57:02	83	20m	
86	WMP			f		
87	022154p5707	02:21	+57:07	83	15m	
88	WMP			f		
89	022156p5705	02:21	+57:05	87	20m	brighter + to W m slit
90	WMP			f		
91	022159p5704	02:21	+57:04	83	15m	20m ↑↑ clouds.
92	WMP			f		
93	gusomb - 6706	05:51	-01:29	112	12m	
94	WMP			f		
95	gusomb 4856	05:51	-01:55	112	15m	
96	WMP			f		
97	55901	05:51	-02:01	112	15m	
98	WMP			f		
99	61073	05:51	-02:27	112	8m	
100	WMP			f		
101	68279	05:52	-01:33	112	15m	fainter + to W
102	WMP			f		
103	61999	05:52	-02:45	112	15m	
104	WMP			f		
105	62452	05:53	-02:40	112	10m	
106	WMP			f		
107	99783	05:53	-02:09	112	10m	
108	WMP			f		
109	95766-192	07:19	+56:49	64	15m	
110	WMP			f		
111-112	266em	08:03	+27	100	10m, h	
113	WMP			f		

60 inch Telescope Log

Observer: PB

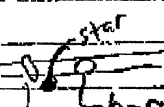
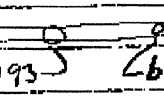
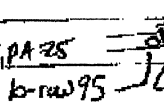
PI: MGB

Spectrograph: FAST

Grating: 300L

Date: 2/5/00

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Number	Object	R. A.	Dec.	LIR	Exp	Comments
114	95766-113	07:14	+54:21	69	16m	clearing...!
115	COMP			↑		
116	195	07:26	+57:04	69	15m	
117	COMP			↑		
118	084406p182	08:46	+28:19	113	20m	PA=20 (major axis)
119	COMP			↑		
120	092106p0330b	F*			90s	test; supra; remove from sample ↳ not a useful galaxy
121	092312p022a	09:25	+02:13	113	12m	PA=90
122	COMP			↑		
123	092312p022b	09:25	+02:19	113	20m	
124	COMP			↑		
125	092718 ab	09:47	+02:09	113	15m	PA=74  star
126	COMP			↑		a-row 115 } b-row 88
127	103206 ah	10:32	+15:52	113	20m	PA=3  not a pair
128	COMP			↑		a-row 93 } b-row 43
129	104126a	10:44	+06:45	113	10m	PA=90
130	COMP			↑		
131	104126 b	10:44	+06:46	113	20m	
132	COMP			↑		
133	111124 ab	11:14	+20:23	113	20m	close pair; PA=25 
134	COMP			↑		b-row 95 } a-row 87
135	111206p35a	11:14	+35:20	113	12m	PA=29
136	COMP			↑		
137	111206 b	11:14	+35:20	113	15m	PA=90
138	COMP			↑		
139, 141, 143	SN1999E	13:17	-18:33	2	20m/15	PA=0 no.
140, 142, 144	COMP			↑		
145	H244	13:21	-76	56	2m	
146	COMP			↑		

60 inch Telescope Log

Observer: K Rines

Pl: Bragg, Rines

Spectrograph: FAST

Grating: 3001

Date: 2/6/2000

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				20m	clear; some clouds to W
11-20	BIAS				0s	
21-30	FLAT				6s	
31-40	FLAT				12s	bin by 2
41-50	BIAS				0s	
51-57	sky				2s, 10s	
58	COMP				6s	
59	Frige 25	2 38	5 28	56	2m	
60	COMP			↑		
61	M31	0 42	40 59	57	30s	
62	COMP			↑		
63	022154p57	2 21	57 15	83	20m	
64	COMP			↑		
65	02220p57	2 22	57 04	83	20m	
66	COMP			↑		
67	022202p5710	2 22	57 10	83	20m	bin by 4
68	COMP			↑		
69	022202p5711	2 22	57 11	83	20m	* to E
70	COMP			↑		
71	022203p571012	2 22	57 10	83	20m	* to E
72	COMP			↑		
73	0496-178	4 27	-12 39	64	8m	
74	COMP			↑		
75	181	4 15	-14 38	64	12m	
76	COMP			↑		
77	182	4 41	-14 25	64	15m	
78	COMP			↑		
79	183	4 27	-14 51	64	20m	em
80	COMP			↑		

60 inch Telescope Log;

Observer: K RinesPI: Rines, Kishner, Calvet, KenyonSpectrograph: FASTGrating: 3001Page: 8228Date: 2/6/2000

Number	Object	R.A.	Dec.	L/R	Exp	Comments
81	a496-184	4 29	-17 52	64	10m	
82	COMP			↑		
83	185	4 32	-11 56	64	6m	
84	COMP			↑		
85	new sn	2 18	13 13	2	20m	bin by 2
86	COMP			↑		
87	qvsorb-49830	5 53	-2 05	112	10m	bin by 4
88	COMP			↑		
89	qvsorb-63570	5 54	-0 42	112	10m	SW + NE compts; bin by 2
90	COMP			↑		
91	qvsorb-51277	5 55	-1 55	112	6m	bin by 4
92	COMP			↑		
93	qvsorb-58600	5 55	+0 07	112	4m	
94	COMP			↑		
95	qvsorb-58900	5 56	-0 03	112	4m	
96	COMP			↑		
97	qvsorb-52198	5 56	-1 46	112	6m	
98	COMP			↑		
99	qvsorb-66092	5 56	-0 30	112	10m	A to E
100	COMP			↑		
101	qvsorb-59862	5 57	-0 16	112	8m	
102	COMP			↑		
103	qvsorb-60085	5 57	-0 16	112	8m	
104	COMP			↑		
105, 106	BGGem	6 03	+27 41	100	1m, 8m	bin by 2
107	COMP			↑		
108	a576b-187	7 12	57 09	64	20m	
109	COMP			↑		
110	a576d-002	7 14	55 45	64	20m	bin by 4
111	COMP			↑		

60 inch Telescope Log

Observer: K RinesPI: Rines, MahdaviSpectrograph: FASTGrating: 300lPage: 8229Date: 2/6/2000

Number	Object	R.A.	Dec.	L/R	Exp	Comments
112	a576d-003	7 19	54 58	64	20m	faint gal to W
113	COMP			↑		
114	d-004	7 19	56 44	64	20m	bright * to SW
115	COMP			↑		
116	d-005	7 17	56 56	64	20m	
117	COMP			↑		
118	d-006	7 12	56 16	64	20m	gal? to E (faint)
119	COMP			↑		
120	d-008	7 13	55 17	64	20m	
121	COMP			↑		
122	d-007	7 21	54 45	64	20m	
123	COMP			↑		
124	a576b-198	7 19	54 53	64	20m	
125	COMP			↑		
126	ss2.6164.180	11 19	-7 33	59	15m	
127	COMP			↑		
128	nrsg 241.018	13 22	33 21	59	15m	
129	COMP			↑		
130	049	13 22	32 44	59	10m	
131	COMP			↑		
132	050	13 22	32 40	59	8m	
133	COMP			↑		
134	051	13 22	33 05	59	8m	broad
135	COMP			↑		
136	053	13 22	32 38	59	6m	
137	COMP			↑		
138	054	13 22	33 31	59	10m	
139	COMP			↑		
140	055	13 22	32 53	59	6m	
141	COMP			↑		

60 inch Telescope Log		Spectrograph: <u>FAST</u>			Page: <u>8231</u>	
Observer: <u>K Rines</u>		Grating: <u>300L</u>				
PI: <u>Bragg, Rines</u>		Date: <u>2/7/2000</u>				
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				20m	bin by 4
11-20	BIAS				0s	circus to W
21-30	FLAT				6s	
31-40	FLAT				12s	bin by 2
41-50	BIAS				0s	
51-56	sky				2s	bin by 4
57-58	COMP					
59	Feige 25	2 38	5 28	56	2m	
60	COMP			↑		
61	"	2 38	5 28	56	2m	bin by 2
62	COMP			↑		
63	022209 p570420	2 22	57 04	83	20m	
64	COMP			↑		
65	022211 p571551	2 22	57 15	83	20m	bin by 4
66	COMP			↑		
67	022212 p5702	2 22	57 02	83	20m	
68	COMP			↑		
69	a 496-187, 289	4 42	-12 37	64	15m	187 is E, 289 is W
70	COMP			↑		
71	186	4 45	-16 04	64	7m	
72	COMP			↑		
73	188	4 44	-16 01	64	8m	
74	COMP			↑		
75	189	4 27	-14 44	64	12m	might be contaminated by nearby bc due to poor seeing
76	COMP			↑		
77	190	4 32	-11 20	64	8m	obj to W
78	COMP			↑		
79	191	4 49	-13 17	64	400s	
80	COMP			↑		

60 inch Telescope Log.

Observer: K Rines

PI: Rines, Calvet

Spectrograph: FAST

Grating: 3001

Date: 2/7/2000

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
81	a496-193	4 34	-10 31	64	10m	
82	COMP			↑		
83	200	4 21	-14 15	64	8m	
84	COMP			↑		
85	201	4 22	-13 51	64	12m	* to W
86	COMP			↑		em
87	202	4 29	-14 12	64	12m	brued
88	COMP			↑		
89	203	4 42	-15 19	64	8m	
90	COMP			↑		
91	204	4 37	-11 40	64	5m	
92	COMP			↑		
93	199	4 33	-8 00	64	8m	
94	COMP			↑		
95	gvsomb-60826	5 58	-0 12	112	8m	
96	COMP			↑		
97	-53760	5 58	-2 06	112	4m	
98	COMP			↑		
99	-61269	5 58	-0 11	112	150s	* to W
100	COMP			↑		
101	-62892	6 00	-0 12	112	4m	
102	COMP			↑		
103	gvsota-27513	5 12	+0 05	112	8m	
104	COMP			↑		
105	38044	5 12	-1 25	112	12m	* to E
106	COMP			↑		
107	27536	5 15	-0 18	112	12m	
108	COMP			↑		
109	gvsotb-38835	5 32	-1 49	112	10m	
110	COMP			↑		

60 inch Telescope Log

Observer: K Rines

PI: Rines, Kenyon, Mahdavi

Spectrograph: FAST

Grating: 300L

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Date: 2/7/2000

Number	Object	R.A.	Dec.	L/R	Exp	Comments
111	a576b-196	7 14	56 55	64	20m	
112	COMP			↑		
113	b-197	7 27	56 30	64	17m	
114	COMP			↑		
115	b-199	7 12	56 54	64	20m	
116	COMP			↑		
117	b-200	7 26	55 58	64	15m	
118	COMP			↑		
119,120	BGGem	6 03	27 41	100	1m, 8m	b:n by Z
121	COMP			↑		
122	a576b-201	7 26	54 30	64	15m	
123	COMP			↑		
124	b-169	7 12	56 04	64	20m	* to W; km by Y
125	COMP			↑		
126	b-131	7 28	54 20	64	25m	LSB galaxy
127	COMP			↑		em at pixel 2124?
128	b-202	7 20	56 34	64	17m	
129	COMP			↑		
130	nrsg110.115	10 59	+10 01	59	17m	em
131	COMP			↑		
132	161	11 01	+10 29	59	20m	em
133	COMP			↑		
134	169	11 02	+9 58	59	20m	
135	COMP			↑		
136	ss26164.224	11 23	-6 52	59	20m	obj to W WK
137	COMP			↑		
138	235	11 24	-7 39	59	20m	
139	COMP			↑		
140	nrsg177.350	12 05	+19 42	59	17m	
141	COMP			↑		

60 inch Telescope Log.

Observer: K Rines

PI: Mahdavi

Spectrograph: EAST

Grating: 3001

Date: 2/7/2000

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
142	Mrkb 302.065	14 25	10 37	59	10m	
143	COMP			↑		
144	066	14 26	10 53	59	750s	em
145	COMP			↑		
146	067	14 26	11 11	59	6m	
147	COMP			↑		
148	068	14 26	11 10	59	9m	
149	COMP			↑		
150	069	14 26	11 24	59	10m	
151	COMP			↑		
152	070	14 26	12 10	59	7m	
153	COMP			↑		
154	076	14 27	11 43	59	12m	obj to E
155	COMP			↑		
156	077	14 27	10 20	59	12m	WKS but emission
157	COMP			↑		
158	081	14 28	11 41	59	390s	A to E
159	COMP			↑		em
160	Feige 98	14 36	27 42	56	2m	
161	COMP			↑		
162-171	BIAS				0s	light cirrus @ dawn
172-181	FLAT				6s	
182-191	FLAT				12s	bin by 2
192-201	BIAS				0s	
202-211	DARK				20m	

60 inch Telescope Log,

Observer: K Rines

Fl: Calvet, Rines

Spectrograph: FAST

Grating: 3001

Date: 2/8/2000

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				20m	
11-20	BIAS				0	clouds!
21-30	FLAT				6s	
31-40	FLAT				12s	
41-50	BIAS				0	
51-57	sky				2s	
58	COMP				6s	
59	HZ14	4 41	10 59	56	5m	thru clouds, but good seeing
60	COMP			↑		
61	quasars - 32209	5 19	-0 22	112	15m	E+W counts
62	COMP			↑		bin by 2
63	37237	5 21	-0 55	112	15m	bin by 4
64	COMP			↑		
65	a496-205	4 14	-13 08	64	10m	
66	COMP			↑		
67	a496-217	4 20	-14 59	64	10m	
68	COMP			↑		
69	222	4 16	-11 57	64	7m	
70	COMP			↑		
71	214	4 20	-12 00	64	8m	
72	COMP			↑		
73	213	4 29	-12 05	64	5m	
74	COMP			↑		
75	209	4 30	-11 48	64	4m	
76	COMP			↑		
77	211	4 45	-16 10	64	10m	
78	COMP			↑		
79	210	4 50	-14 18	64	5m	
80	COMP			↑		clouds

60 inch Telescope Log

Observer: K Rines

PI: Kirschner, Brown

Spectrograph: FAST

Grating: 3001

Date: 2/8/2000

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
81	newsm	6 51 09	12 54 42	2	460s	SN 20" E of galaxy core, bin by 2
82	COMP			↑		interrupted by clouds
83	"	"	"	2	20m	
84	COMP			↑		
85	cs 10403	8 51	29 29	?	5m	bin by 4
86	COMP			↑		socked in again
87	cs 11910	9 58	28 52	?	3m	3 AM beautiful
88	COMP			↑		
89	cs 12003	9 59	29 17	?	3m	
90	COMP			↑		
91	cs 22107	10 04	29 38	?	3m	STAR *
92	COMP			↑		
93	cs 11909	9 56	29 45	?	2m	star? STAR *
94	COMP			↑		
95	cs 12103	10 06	28 56	?	3m	
96	COMP			↑		
97	cs 12202	10 10	28 50	?	4m	
98	COMP			↑		
99	cs 12301	10 14	29 19	?	3m	
100	COMP			↑		
101	cs 12406	10 17	29 14	?	4m	Seyfert
102	COMP			↑		
103	cs 501	10 41	29 06	?	3m	STAR *
104	COMP			↑		
105	cs 12904	10 42	29 33	?	5m	
106	COMP			↑		
107	cs 13205	10 52	29 41	?	4m	STAR *
108	COMP			↑		
109	cs 13206	10 56	29 39	?	30s	star? STAR * COMP is #114

60 inch Telescope Log

Observer: K Rines

PI: Brown, Mahdavi

Spectrograph: EAST

Grating: 300A

Date: 2/8/2000

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
110	cs 595	11 03	29 30	?	5m	
111	COMP			↑		
112	cs 864	11 49	29 35	?	7m	
113	COMP			↑		
114	COMP			↑		COMP for #109
115	cs 900	11 59	29 29	?	7m	
116	COMP			↑		
117	cs 935	12 03	29 38	?	7m	
118	COMP			↑		
119	cs 16005	12 58	29 07	?	3m	
120	COMP			↑		
121	cs 16006	12 58	29 07	?	7m	
122	COMP			↑		
123	cs 16107	12 59	29 28	?	7m	
124	COMP			↑		
125	cs 16106	12 00	29 27	?	4m	
126	COMP			↑		
127	cs 16103	13 00	29 20	?	6m	
128	COMP			↑		
129	cs 16101	13 01	29 18	?	90s	
130	COMP			↑		
131	cs 16102	13 01	29 18	?	5m	Seyfert
132	COMP			↑		from interaction?
133	cs 16105	13 02	28 53	?	6m	
134	COMP			↑		
135	cs 16104	13 02	28 57	?	6m	
136	COMP			↑		
137	nr 6302.079	14 27	11 58	59	8m	em
138	COMP			↑		
139	080	14 27	11 32	59	10m	
140	COMP			↑		

60 inch Telescope Log

Observer: K Rines

PI: Huchra

Spectrograph: FAST

Grating: 3001

Date: 2/8/2000

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
141	Zmj 140708.83+15	14 07	15 19	68	4m	
142	COMP			↑		
143	ZmJ141048.93+14	14 10	14 23	68	3m	
144	COMP			↑		
145	ZMJ141517-02	14 15	-2 26	68	150s	
146	COMP			↑		
147	ZMJ144433-03	14 44	-3 13	68	3m	
148	COMP			↑		
149	ZMJ144658-03	14 46	-3 32	68	4m	
150	COMP			↑		
151	ZMJ140125-00	14 01	-0 37	68	3m	
152	COMP			↑		
153	ZMJ140335-02	14 03	-2 07	68	3m	
154	COMP			↑		
155	ZMJ140307-04	14 03	-4 42	68	2m	
156	COMP			↑		
157	ZMJ143709+25	14 37	25 15	68	2m	
158	COMP			↑		
159	Feige 98	14 36	27 42	56	2m	
160	COMP			↑		
161-170	BIAS				0s	
171-180	FLAT				6s	
181-190	FLAT				12s	bin by 2
191-200	BIAS				0s	circus at dawn
201-210	DARK				20m	

60 inch Telescope Log
 Observer: Coxvins
 PI: All, (Machine), B1979

Spectrograph: FAST
 Grating: 300L
 Date: 2/9/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-4	DASXL				15m	
5-14	BIAS				0s	
15-24	FLAT				6s	
25-34	BIAS				0s	
35-44	FLAT				12s	
45, 46	Feigold	2 35	3 44	#56	2m	
47	comp			↑		
48, 49	Feige 25	2 38	5 28	#56	2m	
50	comp			↑		
51, 52	Feige 25	2 38	5 28	#56	2m	
53	comp			↑		
54, 55	Feige 26	2 38	5 28	#56	2m	PA = 39°
56	comp			↑		
57	HD 12623	2 06	63 10	#57	5s	(over-exposed)
58	comp			↑		
59	HD 12623	2 06	63 10	#57	2s	
60	comp			↑		
61	HD 12623	2 06	63 10	#57	3s	
62	comp			↑		
63	SN 2000D	2 18	38 04	#2	20m	PA = 93°
64	comp			?		
65	022206p570147	2 22	57 09	#83	20m	PA = 49°, Row 68
66	comp			↑		
67	022207p570323	2 22	57 03	#83	20m	which object ??
68	comp			↑		
69	022207p571115	2 22	57 11	#83	15m	
70	comp			↑		clouds passing thru
71	022212p571437	2 22	57 14	#83	17m	Row 71 = 022212p571437
72	comp			↑		Row 85 = 022214p571438
73	022219p571421	2 22	57 14	#83	20m	

67. - Extracted brightest obj near center
 ~ same line as obj before & after

60 inch Telescope log
 Observer: CALVEOUS
 PI: Brago, Kenyon, Kirchner, Pines
 Spectrograph: FAST
 Grating: 500L Page: 8240
 Date: 2/8/00

Number	Object	R A	Dec.	L/R	Exp	Comments
74	comp			↑		
75	22221p570311	2 22	57 03	#83	13m	possible binary
76	comp			↑		
77	22222p570338	2 22	57 03	#83	20m	
78	comp			↑		
79	22224p570370	2 22	57 06	#83	15m	
80	comp			↑		
81	22225p571017	2 22	57 11	#83	20m	
82	comp			↑		
83	B6gens	6 03	27 41	#100	1m	
84	comp			↑		
85	B6gens	6 03	27 41	#100	8m	
86	comp			↑		
87 88	sn 2000H	6 51	12 55	#2	20m	PA = 42°
89	comp			↑		
90	sn 2000B	7 05	50 35	#2	20m	PA = -59°
91	comp			↑		
92	sn 1999g	9 44	21 15	#2	20m	PA = 0.0°
93	comp			↑		
94	a576b-203	7 19	56 23	#64	5m	
95	comp			↑		← insufficient lts.
96	a576b-203	7 19	56 23	#64	5m	
97	comp			↑		
98	a576b-204	7 25	54 31	#64	13m	(snr. as 205)
99	comp			↑		
100	a576b-207	7 19	55 10	#64	8m	
101	comp			↑		
102	a576b-208	7 20	54 58	#64	15m	
103	comp			↑		
104	a576b-209	7 26	57 05	#64	20m	

75 - 2 objects on slit - far apart
 which is correct??
 extracted objed closest to center

60 Inch Telescope Log

Observer: LACKNER

PI: Pavel Geller, Mahdavi

Spectrograph: FAST

Grating: 2002L

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Date: 2/1/00

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1025	comp			↑		
1026	α5766-210	7 12	56 24	#69	12m	
1027	comp			↑		
1028	α5766-211	7 29	56 24	#69	12m	
1029	comp			↑		
1102	α5766-212	7 28	56 04	#69	8m	
111	comp			↑		
112, 113	12342p3530B	13 38	53 02	#113	15m	PA=110 (to isolate object)
114	comp			↑		
115	13222p3130A	13 38	31 22	#113	15m	
116	comp			↑		
117, 118	13222p3130B	13 38	31 28	#113	15m	
119	comp			↑		
120, 121	13222p3130C	13 49	25 15	#113	15m	
122	comp			↑		
123, 124	134930...B	13 51	-2 05	#113	20m	faint!
125	comp			↑		
126	α5766-210	14 28	12 02	#59	15m	PA=110°
127	comp			↑		
128	α5766-210	14 28	11 22	#59	17m	
129	comp			↑		
130	A244	13 23	36 08	#56	2m	
131	comp			↑		
132	A244	13 23	36 08	#56	2m	clouds @ sunrise
133	comp			↑		
134	A5866	15 06	55 45	#57	4m	clouds, dust lane
135	comp			↑		
136-140	sky			#57	2s	
141	comp			↑		
142-151	BIAS				0s	

60 inch Telescope log

Observer: CALKINS

PI: All, Bragg, Kuyper

Spectrograph: FAST

Grating: 300L

Date: 2/10/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-12	DARK				15m	
11-20	BIAS				0s	
21-30	FLAT				6s	
21-40	BIAS				0s	
41-50	FLAT				12s	circus at sunset
57-58	sky			#57	2s	
56	comp			↑		look
57,58	G191B2D	5 05	52 50	#56	2m	thru clouds
59	comp			↑		
60,61	G191B2B	5 05	52 50	#56	2m	
62	comp			↑		
63,64	G191B2B	5 05	52 50	#56	2m	PA = 15°
65	comp			↑		
66	HD 52971	7 00	27 09	#57	5s	
67	comp			↑		
68	HD 52971	7 00	27 09	#57	5s	wait out clouds
69	comp			↑		
70	022227p57132	2 22	57 13	#83	20m	thru clouds
71	comp			↑		
72	022227p57041	2 22	57 04	#83	15m	
73	comp			↑		
74	022227p57037	2 22	57 09	#83	17m	
75	comp			↑		
76	022227p57058	2 22	57 06	#83	17a	
77	comp			↑		
78	022227p57056	2 22	57 06	#83	20m	
79	comp			↑		
80	BGGem	6 03	27 41	#100	1m	thru clouds
81	comp			↑		
82	BGGem	6 03	27 41	#100	3m	

60 inch Telescope log

Observer: CALKINS

PI: Finns

Spectrograph: FAST

Grating: 300L

Page: 8244

Date: 2/10/00

Number	Object	R.A.	Dec.	L/R	Exp	Comments
83	comp			↑		
84	25760-213	7 14	55 30	#64	6m	low ds, do again
85	comp			↑		
86	25760-213	7 14	55 30	#64	6m	
87	comp			↑		
88	214	7 11	56 39	#64	10m	
89	comp			↑		
90	215	7 29	57 10	#64	8m	*
91	comp			↑		
92	216	7 24	55 05	#64	8m	PA=110° to isolate.*
93	comp			↑		low 90
94	217	7 29	56 50	#64	15m	WR
95	comp			↑		
96	218	7 35	56 52	#64	13m	seeing getting worse.
97	comp			↑		
98	219	7 12	59 59	#64	15m	
99	comp			↑		
100	220	7 29	56 55	#64	10m	
101	comp			↑		
102	221	7 12	57 29	#64	9m	
103	comp			↑		
104	222	7 23	54 26	#64	20m	
105	comp			↑		
106	223	7 28	56 06	#64	10m	
107	comp			↑		
108	224	7 27	54 56	#64	13m	
109	comp			↑		
110	225	7 29	57 10	#64	20m	
111	comp			↑		
112	227	7 26	56 35	#64	15m	

60 inch Telescope Log,
 Observer: CALVIN
 PI: Coller

Spectrograph: FAST
 Grating: 3000
 Date: 2/10/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
113	comp			↑		
114	42024... A	19 22	37 07	#113	15m	
115	comp			↑		clouds passing
116, 117	42024... B	19 22	37 05	#113	15m	thru
118	comp			↑		
119	143636... A	14 38	30 26	#113	17m	
120	comp			↑		
121	143636... B	14 38	30 27	#113	20m	
122	comp			↑		
122	143836... A	14 40	38 38	#113	12m	
124	comp			↑		
125	143836... B	14 40	38 41	#113	10m	
126	comp			↑		
127	144012... B	14 42	28 39	#113	20m	
128	comp			↑		
129	145524... A	14 57	49 40	#113	10m	line 75 79
130	comp			↑		
131	145524... B	14 57	49 37	#113	18m	
132	comp			↑		
133	145900... A/B	15 00	49 59	#113	20m	PA=8°
134	comp			↑		A = row 94
135	14244	17 23	36 08	#56	2m	B = row 59
136	comp			↑		
137-146	BIAS				0s	
147-156	FLAT				6s	
157-166	BIAS				0s	
167-176	FLAT				12s	
177-186	DARK				5m	

60 inch Telescope Log
 Observer: CALVINUS
 PI: Al Kirschner, B5992

Spectrograph: FAST
 Grating: 300L
 Date: 2/11/00

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Number	Object	H. A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	
11-20	BIAS				05	
21-30	FLAT				65	
31-40	BIAS				05	
41-50	FLAT				126	
51-55	sky			#57	20	
56	comp			↑		
57, 58	G191B2B	5 05	52 50	#56	2m	
59	comp			↑		
60, 61	G191B2B	5 05	52 50	#56	2m	
62	comp			↑		
63, 64	G191B2B	5 05	52 50	#56	2m	PA = 36°
65	comp			↑		
66	NGC1700	4 56	-9 51	#57	4m	
67	comp			↑		
68	SN1999em	4 41	-2 51	#2	15m	PA = -10°
69	comp			↑		
70	SN1999gp	2 31	39 24	#2	20m	PA = 98°
71	comp			↑		
72	022236p57113	2 22	57 11	#83	15m	Row 80
73	comp			↑		
74	022237p571255	2 22	57 12	#83	15m	
75	comp			↑		
76	022240p571426	2 22	57 14	#83	15m	
77	comp			↑		
78	022241p571517	2 22	57 13	#83	20m	
79	comp			↑		
80	022244p570552	2 22	57 03	#83	17m	
81	comp			↑		
82	022244p570536	2 22	57 05	#83	20m	

60 inch Telescope Log

Spectrograph: FAST

Observer: CALKINS

Grating: 300L

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PI: Drapp, Kenyon, Kirshner, Brown

Date: 2/11/02

Number	Object	R.A.	Dec.	L/R	Exp	Comments
83	comp			↑		
84	02247p570158	2 22	57 02	#83	20m	
85	comp			↑		
86	02249p570151	2 22	57 04	#83	18m	
87	comp			↑		
88	02252p570152	2 22	57 02	#83	17m	
89	comp			↑		
90	BlGem	6 03	27 41	#100	1m	
91	comp			↑		
92	BlGem	6 03	27 41	#100	8m	
93	comp			↑		
94, 95	sn2002H	6 51	12 54	#2	20m	PA = 44°
96	comp			↑		
97	sn1998gh	9 44	21 16	#2	20m	PA = -13
98	comp			↑		
99	cs10106	8 36	29 16	#114	20m	
100	comp			↑		
101	cs20109	8 36	29 48	#114	11m	
102	comp			↑		
103	cs10111	8 37	29 43	#114	13m	
104	comp			↑		
105	cs10110	8 38	29 45	#114	13m	
106	comp			↑		
107	cs10107	8 38	28 58	#114	20m	PA = 91
108	comp			↑		
109	cs10204	8 41	29 28	#114	15m	PA = 58
110	comp			↑		
111	cs10203	8 41	29 07	#114	13m	
112	comp			↑		
112	112942... A	11 32	00 49	#113		

60 inch Telescope Log

Observer: CALVIN

PI: Geller

Spectrograph: FAST

Grating: 300L

Page: 8248

Date: 2/11/00

Number	Object	R.A.	Dec.	L/R	Exp	Comments
114	comp			↑		
115	112942... R	11 32	00 48	↑113	8m	PA=110 to isolate
116	comp			↑		
117	112948... B	11 32	5 08	↑113	20m	clouds moving in
118	comp			↑		
119	124048... A	12 43	11 13	↑113	18m	
120	comp			↑		
121	124048... B	12 43	11 12	↑113	18m	
122	comp			↑		
123	124140... A	12 44	4 24	↑113	20m	PA=72° 2 objects split - w
124	comp			↑		
125	125520... A/B	12 57	8 40	↑113	20m	PA=52°
126	comp			↑		
127	132616... A/B	13 28	18 33	↑113	20m	PA=102°
128	comp			↑		looking for holes clouds win!
129-138	BIAS				0s	
139-148	FLAT				6s	
149-158	BIAS				0s	
159-168	FLAT				12s	
169-178	DARK				15m	

or which is obj??

123 - extracted East object (it was strongest) neither object centered

FAX To: Susan Tokarz
PO 142

60 inch Telescope Log
Observer: Berndt
PT: Calvet

Spectrograph: FABT
Grating: 300L
Date: 2/12/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIPAS				0s	lots of clouds
11-20	FLAT				7s	
21-30	BIPAS				0s	
31-40	FLAT				14s	
41-48	sky	Zenith		57	3s	on clouds
46	WMP			↑		bright man
47-49	HD12673	02h	+62	57	5s	
50	WMP			↑		
51-52	BlGiem	0603	+27	10	128, 15s	
53	WMP			↑		stopped - clouds
54	quasol-2005	05:14	-01:07	112	15m	
55	WMP			↑		
56	quasol-29097	05:14	-00:51	112	15m	
57	WMP			↑		
58	31597EW	05:14	-03:51	112	15m	close EW pair
59	WMP			↑		
60, 62, 64	SN2000H	08:51	+12:55	2	20m	PAE34
61, 63, 65	WMP			↑		
66	ZM006350 p46	08:35	+16:41	68	20m	
67	WMP			↑		
68	ZM5092331	09:23	+24:26	68	6m	
69	WMP			↑		
70	ZM509254.1	09:23	+23:21	68	4m	
71	WMP			↑		
72	075734	07:	+76	84	3m	
73	WMP			↑		
74	07569	07:59	+42:11	84	18m	em looks ok - HK pic 2038
75	WMP			↑		
76	07570	07:57	+41:59	84	10m	if clouds stop.
77	WMP			↑		

60 inch Telescope Log,

Observer: PB

PI: Andi

Spectrograph: FAST

Grating: 300L

Date: 2/12/00

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Number	Object	R A	Dec.	L/R	Exp	Comments
78-9	Feig 39	10:36	+43	56	80s	
80	WMP			†		
81	Hz 44	13:21	+26	56	82	
82	WMP			†		
83	ms 302-91	14:28	+11:17	59	10m	POOR
84	WMP			†		
85	80	14:28	+11:22	59	10m	
86	WMP			†		
87	87	14:28	+11	59	12m	
88	WMP			†		
89	89	14:28	+11:30	59	20m	M
90	WMP			†		
91	92	14:28	+11:33	59	15m	redo
92	WMP			†		
93-102	BIAS				0s	clouds.
103-112	FLAT				7s	
113-122	BIAS				0s	
123-132	FLAT				16s	
133-142	DARK				20m	

89. em velocity ~ 1000 km/sec < absorption velocities but H α is real

Fax To: Susan Tokar 2
1.6 3

60 inch Telescope (orig)
 Observer: P. Berland
 PI: Scott
 Spectrograph: FAST
 Grating: 300, 1200
 Date: 2/13/00
 Page: 8251

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	
11-20	BIDS				0s	
21-30	FLAT				7s	
31-40	BIDS				0s	
41-50	FLAT				1/4	
51-55	sky	zenith		S7	3s	on clouds
56	WMP			↑		
57-58	M31	00:40	+40	S7	30s	
59	WMP			↑		
60-61	M32	00:40	+40	S7	30s	
62	WMP			↑		
63	2M5 020201	02:02	-02:50	68	4m	clouds forming overhead
64	WMP			↑		st-p.
65-66	B66gem	06:03	+27	160	15m	
67	WMP			↑		
68-69	B66gem/1200	06:03	+27	160	10m, 2m	1200E, 1.5" slit; t.H.=685.0
70	WMP			↑		focus=1160 H
71-72	Hiltner 60	06:42	+02	S6	60s	300E; 3" slit normal setup 6
73	WMP			↑		
74, 76	SN2004H	06:50	+12:55	Z	20m	pretty good sky
75, 77	WMP			↑		bright moon
78	test					1200E, 1.5" slit; t.H.=350.6
79	WMP			↓	90s	focus=1125 bin by grant
80-85	U Gem	07:55	+20	116	270s	HX=0
86	WMP			↓		
87-92	U Gem	"	"	116	270s	
93	WMP			↑		thin clouds

60 inch Telescope Log

Observer: PB

PI: P. Groot

Spectrograph: FAST

Grating: 1200

Page: 8252

Date: 2/13/00

Number	Object	R.A.	Dec.	L/R	Exp	Comments
94-99	U Gem	0755	+22 00	116	270s	1200L, 1.5" slit; baby goat
100	COMP			↓	90s	
101-106	U Gem	"	"	116	270	thin clouds
107	COMP			↓		
108-113	U Gem	"	"	116	270	clearing
114	COMP			↓		humidity ↑↑
115-120	U Gem	"	"	116	270	
121	COMP			↓		
122-127	U Gem	"	"	116	270	
128	COMP			↓		
129-134	U Gem	"	"	116	270	
135	COMP			↓		
136-141	U Gem	"	"	116	270	
142	COMP			↑		
143-148	U Gem	"	"	116	270s	HX = 5"
149	COMP			↑		
150	HZ 21	13:21	+36	S6	5m	
151	COMP			↑		
152	Fairchild	10:26	+43	S6	3m	
153	COMP			↑		
154	HZ 21	13:21	+36	S6	2m	300L, 3" slit normal set-up
155	COMP			↑		
156	mag 30293	14:28	+11:11	S9	4m	
157	COMP			↑		
158	91	14:28	+11:17	S9	15m	redo from yesterday
159	COMP			↑		
160	92	14:28	+11:23	S9	5m	
161	COMP			↑		

60 inch Telescope Log.

Observer: PB

PI: Andi

Spectrograph: FAST

Grating: 3000 / 1200

Date: 2/13/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
162	nrng 302.94	14:28	+10:32	S9	8m	
163	COMP			↑		
164	95	14:29	+11:41	S9	8m	
165	COMP			↑		
166	96	14:29	+12:11	S9	10m	* close to E
167	COMP			↑		
168	97	14:29	+10:41	S9	12m	
169	COMP			↑		
170	98	14:29	+10:38	S9	5m	
171	COMP			↑		
172	99	14:29	+11:27	S9	12m	
173	COMP			↑		
174	100	14:29	+10:29	S9	4m	
175	COMP			↑		
176	101	14:29	+11:45	S9	5m	
177	COMP			↑		windy; some clouds
178	102	14:29	+11:27	S9	25m	down
179	COMP			↑		
180-189	BIAS				0s	
190-199	FLAT				7s	
200-209	BIAS				0s	
210-219	FLAT				14s	
220-224	FLAT	Kanqun			25m	12000; 1.5" slit; tilt=68.5 for Scott/Bluhm
225-250	FLAT	gnost			8m	12000; 1.5" slit; tilt=350.0 bin by gnost
259	bad FLAT					

*End of FAST Run

60 inch Telescope Log

Observer: Calkins

PI: Richard et al

Spectrograph: FAST

Grating: 6300L

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Date: 2/23/00

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-4	DARK				15m	
5-14	BIAS				0s	
15-24	FLAT				55s	
25	Hittner 6000	6 45	2 08	#56	60s	
26	comp			↑		
27, 28	MF2665	7 02	50 34	#88	7.5m	PA = 34
29	comp			↑		
30, 31	MF2960	8 57	22 25	#88	7.5	PA = 0°, clouds
32	comp			↑		
33, 34	MF2682	7 08	50 07	#88	7.5m	PA = 1°
35	comp			↑		
36, 37	MF4015	8 17	38 46	#88	15m	PA = 13°
38	comp			↑		
39, 40	MF4002	7 9	43 45	#88	15m	PA = 30°, clouds getting thick
41	comp			↑		
42-51	BIAS				0s	
52-61	FLAT				55s	
62-71	DARK				15m	

60 inch Telescope Log

Observer: CALVIN

PI: Kochanek et al

Spectrograph: FAST

Grating: 600

Page: 8078

Date: 2/24/00

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARY				15m	Fog @ sunset
11-20	REAS				05	
21-30	FLAT				35S	
31	Feige 34	10 39	43 06	#88	2m	PA=90°
32	comp			↑		
33	comp			↓		
34-36	MF4033	10 01	36 51	#88	12m	PA=34°
37	comp			↑		
38	comp			↓		
39-41	MF4049	11 47	60 17	#48	15m	PA=67° clouds
42	comp			↑		again (shortened
43	HD114724	13 12	24 16	#88	1/1A	last exposure to
44	comp			↑	3 1/2	10 min due to
45	HD114724	13 12	24 16	#88	1/1A	clouds)
46	comp			↑		etc low 1st try, do
47	comp			↓		again (wait clouds)
48-50	AF0521	14 30	40 00	#88	15m	PA=0.0
51	comp			↑		
52, 53	MS7	12 30	12 23	#88	3m	PA=43
54	comp			↑		
55, 56	MF4068	12 27	20 52	#88	12m	PA=40°
57	comp			↑		
58, 59	MF0248	14 02	38 42	#88	12m	PA=88°
60	comp			↑		
61	BD 32642	15 51	32 56	#56	90s	
62	comp			↑		
63	HD190716	15 43	32 30	#87	1/1A	3 1/2
64	comp			↑		
65-69	sky			#57	2s	
70	comp			↑		

60 inch Telescope log
 Observer: CALKINS
 PI: ALL, Kirchner Calvet

Spectrograph: FAST
 Grating: 2026
 Date: 2/25/00

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Number	Object	R A	Dec.	L/R	Exp	Comments
1-10	DARK					
11-20	BIAS					
21-30	FLAT					
31-40	BIAS					
41-50	FLAT					
51, 52	Hiltner 600	6 45	2 05	#56	2m	
53	comp			↑		
54, 55	Hiltner 600	6 45	2 08	#56	2m	PA = -34
56	comp			↑		
57	SN1999em	4 41	-2 51	#2	12m	PA = 15 Thru cloud
58	comp			↑		
59	HD 52971	7 01	27 09	#57	5s	
60	comp			↑		windy and poor seeing, 2-3"
61	HD 52971	7 01	27 09	#57	5s	
62	comp			↑		
63	quasars 31612	5 19	-0 27	#112	20m	
64	comp			↑		
65	quasars 34051	5 18	-0 56	#112	17m	
66	comp			↑		
67	quasars 31308	5 20	-1 55	#112	15m	thru clouds
68	comp			↑		
69	quasars 37401	5 22	-0 41	#112	15m	
70	comp			↑		
71	quasars 46549	5 23	-1 29	#112	15m	
72	comp			↑		
73	quasars 47523	5 24	-1 21	#112	12m	
74	comp			↑		
75	quasars 33508	5 24	-1 43	#112	13m	
76	comp			↑		
77	quasars 34441	5 26	-1 52	#112	15m	

60 inch Telescope Log

Observer: GALILEA

PI: Calvet, Kenyon, Hechra

Spectrograph: FAST

Grating: 300L

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Date: 2/25/00

Number	Object	R.A.	Dec.	L/R	Exp	Comments
78	comp			↑		
79	2M50651734	5 28	-1 29	#112	17m	
80	comp			↑		
81	NG Gem	6 02	27 41	#100	10m	
82	comp			↑		
83, 84	2000H	6 51	12 54	#2	15m	73" seeing, PA = 47°
85	comp			↑		
86, 87	2000B	7 05	50 35	#2	15m	PA = -57°
88	comp			↑		
89	2M51020115P	10 01	70 57	#68	3m	
90	comp			↑		
91	2M51005576	10 05	-8 19	#68	4m	thru clouds
92	comp			↑		
93	2M51020212	10 00	-01 33	#68	3m	
94	comp			↑		
95	2M5101014	10 10	-4 59	#68	3.5m	
96	comp			↑		
97	2M5100648	10 10	-7 51	#68	3m	
98	comp			↑		
99	2M5101242	10 12	-3 29	#68	4m	
100	comp			↑		
101	2M5101317	10 13	-8 03	#68	3m	
102	comp			↑		
103	2M51095017	9 50	-5 44	#68	2m	
104	comp			↑		
105	2M51095204	9 52	-4 59	#68	2.5m	
106	comp			↑		
107	2M51094455	9 49	00 04	#68	2m	
108	comp			↑		
109	2M51090018	9 50	75 43	#68	4m	

60 inch Telescope Log

Observer: CALYSEA

PI: Huchra, Kirshner, Brown, Galt

Spectrograph: FAST

Grating: 3000

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Date: 2/25/00

Number	Object	R.A.	Dec.	L/R	Exp	Comments
110	comp			↑		
111	2M J095629	9 56	68 01	#68	3m	
112	comp			↑		
113	2M J095816	9 58	68 06	#68	4m	
114	comp			↑		
115	2M J095950	9 59	68 54	#68	2m	
116	comp			↑		
117	2M J101124	10 11	69 15	#68	2m	
118	comp			↑		
119	2M J101410	10 14	14 23	#68	2m	object transited
120	comp			↑		~20" along slit during exp.
121	SN? comp	10 14	14 23	#2	15m	At time (JD) 2451600.88,
122	comp			↑		object was at
123	SN 1999gg	12 33	15 11	#2	10m	RA: 10 14 07.25
124	comp			↑		DEC: 14 23 00.7
125	CS 14302	11 41	28 57	#114	12m	Asteroid?
126	comp			↑		
127	CS 14301	11 42	25 55	#114	8m	
128	comp			↑		
129	CS 14402	11 47	29 10	#114	15m	Thru clouds
130	comp			T		
131	CS 14404	11 47	29 01	#114	13m	
132	comp			↑		
133	ISS036-A9R	13 32	41 52	#113	22m	A = Row 65
134	comp			↑		
135	140830...A	14 10	6 22	#113	10m	thru haze
136	comp			↑		
137	140830...B	14 10	6 22	#113	20m	PA = 80° to isolate
138	comp			↑		
139	140830...AB	14 12	45 41	#113	12m	PA = 82°, B row 62

60 inch Telescope log

Observer: CALKINS

PI: Geller

Spectrograph: FAST

Grating: 3002

Date: 2/25/00

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Number	Object	R.A.	Dec.	L/H	Exp	Comments
140	comp			↑		
141	141730...A	14 19	45 50	*113	14m	
142	comp			↑		
143	141730...B	14 19	45 51	*113	18m	
144	comp			↑		
145	154054...A/B	15 43	9 43	*113	20m	PA = 76°, B-stellar row 37
146	comp			↑		
147	154442...A	15 46	17 53	*113	12m	
148	comp			↑		
149,150	20p332642	15 51	32 56	*56	1m	
151	comp			↑		
152,153	50p322642	15 51	32 56	*56	1m	
154	comp			↑		
155-159	sky			*57	2s	
160	comp			↑		
161-170	BIAS				0s	
171-180	FLAT				6s	
181-190	BIAS				0s	
191-200	FLAT				12s	
201-210	DARK				15m	

60 inch Telescope log

Observer: P. Berland

PI: Calvet

Spectrograph: FAST

Grating: 300R

Date: 2/26/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-7	DARK				5m	
8-20	BIAS				0s	
21-30	FLAT				7s	thin clouds
31-40	BIAS				0s	
41-50	FLAT				14s	
51-55	sky	Zenith		S6	3s	
56	CMP			↑		
57-59	HD52571	06	+07	S7	3s	
60	CMP			↑		
61	NGC 670	04	-10	S7	3m	
62	CMP			↑		
63	HZ 14	04	+11	S6	5m	
64	CMP			↑		
65	SN 2000D	02:18	+38:04	2	20m	
66	CMP			↑		
67	SN 1999ep	02:	-10	2	20m	
68	CMP			↑		
69	IC 5015 362 N	05:24	-10:06	112	7m	North Camp
70	362 S	05:24	-10:06	112	8m	South Camp
71	CMP			↑		
72	4160	05:26	-10:41	112	8m	
73	CMP			↑		
74-76	Hiltner 62	06:42	+02	S6	50s	PA=0
77	CMP			↑		
78	42802-115	05:27	-10:27	112	12m	PA=0; N+S camp
79	CMP			↑		Norm 89
80	42149	05:27	-10:26	112	15m	S@ row 82
81	CMP			↑		
82	39089	05:27	+00:35	112	10m	
83	CMP			↑		

60 inch Telescope Log

Observer: PB

PI: Falco

Spectrograph: FAST

Grating: 300R

Date: 2/26/00

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Number	Object	R.A.	Dec.	L/H	Exp	Comments
87	quasar -43307	05:28	-07:17	112	6m	fast comp + SW
88	COMP			↑		
89	5812	05:55	+07:16	112	12m	
90	COMP			↑		
91	58327	05:55	+07:08	112	12m	
92	COMP			↑		
93	6755	05:55	+07:53	112	12m	
94	COMP			↑		
95	B66em	06:17	+07	110	90s, 10m	
96	COMP			↑		
97	07070p867	07:07	+86:17	84	15m	LSB
98	COMP			↑		
99	07170p847	07:32	+86	84	10m	
100	COMP			↑		
101	07570p622	07:53	+62	84	15m	
102	COMP			↑		
103	'SN 2000B	07:05	+50	2	22m	PA=100
104	COMP			↑		
105	07531p480	07:56	+44:52	84	6m	
106	COMP			↑		
107	07542pM31	07:57	+44:23	84	20m	LSB em
108	COMP			↑		
109	07574p372	07:57	+37	84	15m	LSB
110	COMP			↑		
111	07581p5509	07:58	+55:09	84	11m	
112	COMP			↑		
113	07586p425	07:59	+61:25	84	4m	South part of gal
114	COMP			↑		
115	08011p404	08:01	+40:12	84	6m	
116	COMP			↑		

60 inch Telescope Log

Observer: PB

PI: Andr

Spectrograph: FAST

Grating: 300L

Date: 2/26/60

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Number	Object	R.A.	Dec.	L/H	Exp	Comments
113-116	Ferg 39	10:26	+76	S6	90s	
117	WMP			f		
118	MCG 2-11-041	13:21	+32:23	S9	20m	LSB wk em ok
119	WMP			f		
120	MCG 6-30-103	14:29	+11:41	S9	12m	
121	WMP			f		
122	105	14:30	+11:37	S9	7m	
123	WMP			f		
124	107	14:30	+11:57	S9	5m	
125	WMP			f		
126	109	14:30	+12:16	S9	20m	LSB ok em
127	WMP			f		
128	110	14:30	+11:59	S9	4m	
129	WMP			f		
130	111	14:30	+11:09	S9	15m	
131	WMP			f		
132	112	14:30	+11:14	S9	6m	
133	WMP			f		
134	MCG 2-15-8 a	14:29	+45:09	113	15m	a
135	WMP			f		
136	MCG 2-15-8 b	14:29	+45:05	113	20m	b.
137	WMP			f		
138	151742 p1609	15:17	+46:09	113	15m	PH=87
139	WMP			f		
140	151742 p1109	15:17	+46:51	113	20m	
141	WMP			f		
142-145	RW 14m	13:21	+75	12	15-90m	
146	WMP			f		
147-148	150m 21	14:21	+71	12	30s-4m	
149	WMP			f		

60 inch Telescope Log

Observer: PB

PI: Falco

Spectrograph: FAST

Grating: 3000

Date: 2/26/60

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
152	TRCVR	12:44	+64	12	10s	
152	WMP			↑		
153	N430	12:31	+63	89	5m	
154	WMP			↑		
155	12286p59	12:31	+58	89	25m	
156	WMP			↑		
157	12284p57	12:30	+57	89	5m	
158	WMP			↑		
159	1220p68	12:12	+68	89	6m	
160	WMP			↑		
161	1224p610	12:11	+69	89	5m	
162	WMP			↑		
163	N4242	12:17	+65	89	10m	extended gal em
164	WMP			↑		
165	12364p323	12:28	+62	89	5m	
166	WMP			↑		
167-176	BIAS				0s	
177-186	FLAT				0s	
187-196	BIAS				0s	
197-206	FLAT				15s	

60 inch Telescope Log
 Observer: P Berlin
 PI: Kanyan / Groot

Spectrograph: FAST
 Grating: 3002; 12002
 Date: 2/27/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS	Groot			0s	bin by groot
11	test					
12-43	FLAT	Groot			8m	12002; tilt=350.6; bin by groot
44-55	FLAT	Kanyan			100s	12002; tilt=685.0; bin by 2
56-65	BIAS				0s	3002; 3" slit; normal set-up ↓
66-75	FLAT				7s	
76-85	BIAS				0s	
86-95	FLAT				14s	
96-100	sky	zenith		57	2s	
101	COMP			↑	5s	
102-104	HDS 2971			57		
105	COMP			↑		
106	H214			57	5m	PA=22
107	COMP			↑		
108-109	B6 Gem	0603	+27	100	90s, 10m	PA=90
110	COMP			↑		
111	SN 2002H	0651	+155	2	20m	PA=-25
112	COMP			↑		
113	Hiltner 62	0642	+52	56	50s	
114	COMP			↑		
115, 116	B6 Gem 1200	0603	+27	100	2m, 1m	12002; 1.5" slit; tilt=685.0
117	COMP			↑		
118	COMP			↓	90s	12002; 1.5" slit; tilt=350.6
119-124	UGem	0738	+27.0	116	270s	bin by groot focus 1155
125	COMP			↓		HX = -1.10
126-131	UGem			116	270s	
132	COMP			↓		

60 inch Telescope Log

Observer: PB

PI: Groat

Spectrograph: FAST

Grating: 1200L

Date: 2/27/00

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Number	Object	H. A.	Dec.	L/H	Exp	Comments
133-138	U Gem	07:55	+22°	116	270s	1200L, 15" slit; bin by groat
139	COMP			↓	90s	
140-145	U Gem			116	270s	
146	COMP			↓		
147-152	U Gem			116	270s	
153	COMP			↓		
154-159	U Gem			116	270s	
160	COMP			↓		
161-166	U Gem			116	270s	↑ clouds.
167	COMP			↓		
168-173	U Gem			116	270s	
174	COMP			↓		
175-180	U Gem			116	270s	Hk=3:15 time=4:25
181	COMP			↑		Stopped by clouds
182	Ferr 34			116	6m	
183	COMP			↑		
184-193	BIAS			116	0s	
194-203	FLAT			116	8m	
204	test					300L, 3" slit
205-214	DARK	Groat			20m	bin by groat

60 inch Telescope L418
 Observer: P. Berland
 PI: Falco

Spectrograph: FAST
 Grating: 300
 Date: 2/28/00

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BDS				0s	
11-20	FLAT				7s	solid clouds
21-30	BDS				0s	
31-40	FLAT				14s	
41-42	Ferg 39	10:26	+43	86	2m 3m	open @ 12:30
43	WMP			↑		
44-46	SN 95c	11:47	+56W	2	2m	
45-47	WMP			↑		
48	10233 p 1935	10:26	+15:19	84	5m	
49	WMP			↑		
50	10214 p 1620	10:27	+16:01	84	5m	
51	WMP			↑		
52	10232 m 0322	10:25	-03	84	7m	
53	WMP			↑		
54	10214 p 1717	10:26	-03:32	84	7m	
55	WMP			↑		
56	10250 m 0101	10:27	-01:19	84	7m	
57	WMP			↑		
58	10253 m 0232	10:30	-02:45	84	12m	wk + add flk
59	WMP			↑		stopped
60	12018 p 1707	12:07	+16:53	84	12m	wk on
61	WMP			↑		stopped
62-71	BDS				0s	
72-81	FLAT				2	solid clouds
82-91	BDS				0s	
92-101	FLAT				14s	

60 inch Telescope Log

Observer: CAULKINS

PI: ALL Calver

Spectrograph: FAST

Grating: 300L

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Date: 2/29/00

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-3	DARK				15m	
4-13	DARK				0.5	
14-23	FLAT				6s	
24-33	RSAS				0.5	
34-43	FLAT				12s	
44, 45	Hiltner 600	6 45	2 08	11-56	45s	
46	comp			↑		
47, 48	Hiltner 600	6 45	2 08	11-56	45s	PA = 26
49	comp			↑		
50	AGK2p14783	7 20	14 54	11-57	5s	
51	comp			↑		
52	AGK2p14783	7 20	14 54	11-57	5s	
53	comp			↑		
54	quasib38347	5 28	-00 31	11-12	12m	
55	comp			↑		
56	quasib39836	5 29	-00 09	11-12	20m	
57	comp			↑		
58	quasib35880	5 30	-1 11	11-12	20m	
59	comp			↑		
60	quasib37727	5 31	-1 47	11-12	12m	
61	comp			↑		
62	quasib35586	5 32	-1 50	11-12	12m	
63	comp			↑		
64	quasib42745	5 32	-00 12	11-12	10m	
65	comp			↑		
66	quasib52983	5 33	-1 24	11-12	17m	PA = 59 to isolate
67	comp			↑		
68	quasib43813	5 34	-00 08	11-12	10m	
69	comp			↑		
70	quasib48715	5 34	-00 58	11-12	20m	

60 inch Telescope Log

Spectrograph: FAS 5

Observer: CALVINIA

Grating: 300L

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PI: Calvet, Kirchner, Pines, Huchra

Date: 2/29/00

Number	Object	R.A.	Dec.	L/H	Exp	Comments
71	comp			↑		
72	zssolb43903	5 34	00 06	#12	20m	
73	comp			↑		
74	zssolb40110	5 34	-1 55	#12	12m	
75	comp			↑		
76	smUGCS520	10 15	65 06	#2	20m	Giant PA=17°
77	comp			↑		
78	smUGCS520	10 15	65 06	#2	20m	PA=17°
79	comp			↑		
80	zssolb226	7 31	55 02	#64	20m	
81	comp			↑		
82	-228	7 16	56 55	#64	13m	
83	comp			↑		
84	-229	7 25	54 25	#64	17m	
85	comp			↑		
86	-230	7 12	55 56	#64	13m	
87	comp			↑		
88	-231	7 15	54 36	#64	13m	
89	comp			↑		
90	-232	7 13	54 34	#64	12m	
91	comp			↑		
92	-233	7 12	56 50	#64	15m	
93	comp			↑		
94	-234	7 16	54 37	#64	13m	
95	comp			↑		
96	-235	7 25	55 55	#64	20m	
97	comp			↑		
98	zmtj30030	13 00	48 17	#68	25m	
99	comp			↑		
100	zmtj30107	13 01	54 47	#68	2m	

60 inch Telescope Log

Observer: CALVIN

PI: Herschel

Spectrograph: FAST

Grating: 200L

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Date: 2/29/00

Number	Object	R.A.	Dec.	L/R	Exp	Comments
101	comp			↑		
102	ZM5130202	13 03	55 58	FF68	2m	
103	comp			↑		
104	ZM5130427	13 04	55 26	FF68	2m	
105	comp			↑		
106	ZM5130629	13 04	45 17	FF68	3m	
107	comp			↑		
108	ZM5130814	13 09	43 20	FF68	2m	
109	comp			↑		
110	ZM5130927	13 09	47 18	FF68	90s	
111	comp			↑		
112	ZM5130946	13 09	55 29	FF68	2m	
113	comp			↑		
114	ZM5131816	13 18	53 57	FF68	2m	
115	comp			↑		
116	ZM5132145	13 21	54 07	FF68	2m	
117	comp			↑		
118	ZM5132404	13 24	52 42	FF68	4m	
119	comp			↑		
120	ZM51335	13 35	41 11	FF68	2m	
121	comp			↑		
122	ZM5135014	13 50	56 02	FF68	3m	
123	comp			↑		
124	ZM5135238	13 52	46 21	FF68	2.5m	
125	comp			↑		
126	ZM5135652	13 56	20 36	FF68	3m	
127	comp			↑		
128	ZM5135739	13 57	67 28	FF68	3.5m	
129	comp			↑		
130	ZM5135807	13 58	32 38	FF68	3m	

60 Inch Telescope Log

Observer: CACKINS

PI: Coates

Spectrograph: FAST

Grating: 1000

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Date: 2/29/00

Number	Object	R A	Dec.	L/R	Exp	Comments
131	comp			↑		
132	142412...A	14 36	2 23	#113	16m	
133	comp			↑		
134,135	143412...B	14 26	2 22	#113	17m	
136	comp			↑		
137	144518...A	14 47	18 20	#113	12m	PA = 92°
138	comp			↑		
139	144518...B	14 47	18 27	#113	15m	
140	comp			↑		
141	152100...A/B	15 27	12 41	#113	20m	PA = 25°
142	comp			↑		
143	150p332u42	15 52	32 56	#56	2m	
144	comp			↑		
145-149	sky			#57	2s	
150	comp			↑		
151-160	BSAS				0s	
161-170	FLAT				6s	
171-180	BSAS				0s	
181-190	FLAT				12s	
191-200	DARK				15m	

~~141 - A+B NOT MARKED!~~
 from Mike a/c now 120; b/c now 39