

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>8065</u>		
Observer: <u>Garnavich</u>		Grating: <u>300 e/m</u>		Date: <u>Dec 12, 1999</u>		
PI: <u>Garnavich</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-3	Dark				1200s	bin by 2
4-13	Bias				0	
14-22	Flat				12	
23-29	Sky				2-15	
30	Comp			↑	12	
31-36	Nov. Apl 1999	19:23:05	+4:57:20		10-2s	bright! PA=90°
37	Comp			↑	12	
38-39	Feige 110				60	PA=0°
40	Comp			↑	12	
41,42	M31				60	
43	Comp			↑	12	
44	SN97cw	00:25:17	12:53:06		1200	Scan PA=0 30°
45	Comp			↑	12	
46	SN97cw				1200	Scan PA=0
47	Comp			↑	12	
48	SN97cw				1200	Scan PA=0
49	Comp			↑	12	
50	SN99eb	01:43:45	04:13:30		900	PA=25°
51	Comp			↑	12	
52	SN98dm	01:26:14	-06:06:14		1200	Scan PA=20 15"
53	Comp			↑	12	
54	SN98dm				1200	Scan PA=20
55	Comp			↑	12	
56	SN98dm				1200	Scan PA=20
57	Comp			↑	12	
58,59	SN99dep	02:33:59	+20:58:30		1200	8
60	Comp			↑	12	
61	SN92bp	03:36:38	-18:21:5		1200	Scan PA=40 10"
62	Comp			↑	12	
63	SN92bp				1200	Scan

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Spectrograph: FAST

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Grating: 300

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
64	Comp			↑	12	
65	SN92bp				1200	Scan PA=40 10"
66	Comp			↑	12	
67	HZ14				300	PA=20°
68	Comp			↑	12	
69	New HT	5:51:22.88	+2:47:46		900	PA=12
70	Comp			↑	12	
71-72	New HT				900	
73	Comp			↑	12	
74-75	SN99jb	08:10:13.7	33:57:30		900	PA=-60°
76	Comp			↑	12	
77	SN97E	06:47:38	+74:29:51		900	Scan PA=-30 15"
78	Comp			↑	12	
79	SN97E				900	Scan
80	Comp			↑	12	
81	SN97E				900	Scan
82	Comp			↑	12	
83	SN95E	7:51:57	+73:00:38		1200	Scan PA=-20° 1"
84	Comp			↑	12	
85	SN95E				1200	Scan PA=-20°
86	Comp			↑	12	
87	SN95E				1200	Scan
88	Comp			↑	12	
89	SN99gh	9:44:20.2	+21:16:13		600	PA=10
90	Comp			↑	12	
91	SN99gi	10:11:20	44:27:25		600	PA=10
92	Comp			↑	12	
93	SN99ew	11:26:21	46:58:04		900	PA=50
94	Comp			↑	12	
95	Feige 34				90	PA=-50

