



## WHIPPLE OBSERVATORY

## FAST SPECTROGRAPH LOG



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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.DARK	900	0:43	01:07:28.0	31:29:45	300	-22	3.0	#88 Mass Funct	4	
0002.DARK	900	0:43	01:22:39.0	31:29:46	300	-22	3.0	#88 Mass Funct	4	
0003.DARK	900	0:43	01:37:46.0	31:29:47	300	-22	3.0	#88 Mass Funct	4	
0004-0013.BIAS	0	1:29	01:39:13.0	31:29:47	300	-22	3.0	#88 Mass Funct	4	
0014-0023.FLAT	6	1:33	01:43:03.0	31:29:47	300	90	3.0	#88 Mass Funct	4	
0024-0033.BIAS	0	1:36	01:45:26.0	31:29:47	300	90	3.0	#88 Mass Funct	2	
0034-0039.FLAT	12	1:41	01:50:52.0	31:29:47	300	90	3.0	#88 Mass Funct	2	
0040-0043.FLAT	12	1:43	01:52:36.0	31:29:48	300	90	3.0	#88 Mass Funct	2	
0044.Feige25	120	1:43	02:36:00	05:15:16	300	90	3.0	#56 Spectropho	2	Nice night!
0045.COMP	12	1:43	02:36:00	05:15:16	300	90	3.0	#56 Spectropho	2	
0046.Feige25	120	1:43	02:36:00	05:15:16	300	90	3.0	#56 Spectropho	4	
0047.COMP	5	1:43	02:36:00	05:15:16	300	90	3.0	#56 Spectropho	4	
0048.Feige25	120	1:43	02:36:00	05:15:16	300	-14	3.0	#56 Spectropho	2	
0049.COMP	12	1:43	02:36:00	05:15:16	300	-14	3.0	#56 Spectropho	2	
0050.Akn564	180	1:43	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0051.Akn564	180	1:43	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0052.COMP	12	1:43	22:42:39.4	+29:43:31	300	90	3.0	#6 AGN Monitor	2	
0053.N7469	120	1:43	23:03:15.7	+08:52:27	300	90	3.0	#6 AGN Monitor	2	
0054.N7469	120	1:43	23:03:15.7	+08:52:27	300	90	3.0	#6 AGN Monitor	2	
0055.COMP	12	1:43	23:03:15.7	+08:52:27	300	90	3.0	#6 AGN Monitor	2	



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0056.MRK335	120	1:43	00:06:19.6	+20:12:11	300	90	3.0	#6 AGN Monitor	2	
0057.MRK335	120	1:43	00:06:19.6	+20:12:11	300	90	3.0	#6 AGN Monitor	2	
0058.COMP	12	1:43	00:06:19.6	+20:12:11	300	90	3.0	#6 AGN Monitor	2	
0059.a168_136	1200	1:43	01:19:38.3	3:15:40	300	90	3.0	#64 Cluster In	2	
0060.COMP	12	1:43	01:19:38.3	3:15:40	300	90	3.0	#64 Cluster In	2	
0061.a168_220	1200	1:43	01:07:41.6	-3:09:57	300	90	3.0	#64 Cluster In	2	
0062.COMP	12	1:43	01:07:41.6	-3:09:57	300	90	3.0	#64 Cluster In	2	
0063.a168_250	1200	1:43	01:09:44.8	-2:00:19	300	90	3.0	#64 Cluster In	2	
0064.COMP	12	1:43	01:09:44.8	-2:00:19	300	90	3.0	#64 Cluster In	2	
0065.a168_255	1200	1:43	01:21:17.4	-0:33:12	300	90	3.0	#64 Cluster In	2	
0066.COMP	12	1:43	01:21:17.4	-0:33:12	300	90	3.0	#64 Cluster In	2	
0067.a168_266	1200	1:43	01:08:53.6	3:08:09	300	90	3.0	#64 Cluster In	2	
0068.COMP	12	1:43	01:08:53.6	3:08:09	300	90	3.0	#64 Cluster In	2	
0069.a168_268	780	1:43	01:14:38.7	-3:04:52	300	90	3.0	#64 Cluster In	2	
0070.COMP	12	1:43	01:14:38.7	-3:04:52	300	90	3.0	#64 Cluster In	2	
0071.a168_267	1200	1:43	01:02:13.5	-0:26:13	300	90	3.0	#64 Cluster In	2	
0072.COMP	12	1:43	01:02:13.5	-0:26:13	300	90	3.0	#64 Cluster In	2	
0073.sn2001ep	1200	1:43	04:57:00.2	-04:45:40	300	4	3.0	#2 SN Observat	2	
0074.COMP	12	1:43	04:57:00.2	-04:45:40	300	4	3.0	#2 SN Observat	2	
0075.sn2002A	1200	1:43	07:22:36.1	+71:35:41	300	33	3.0	#2 SN Observat	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0076.COMP	12	1:43	07:22:36.1	+71:35:41	300	33	3.0	#2 SN Observat	2	
0077.sn2002A	1200	1:43	07:22:36.1	+71:35:41	300	33	3.0	#2 SN Observat	2	
0078.COMP	12	1:43	07:22:36.1	+71:35:41	300	33	3.0	#2 SN Observat	2	
0079.FLAT	40	1:43	07:22:36.1	+71:35:41	600	90	2.0	#122 Halo Stre	4	600L, 2arcsec, tilt=430
0080-0088.FLAT	40	6:26	07:22:36.1	+71:35:41	600	90	2.0	#122 Halo Stre	4	
0089.Hiltner600	120	6:26	06:42:37.2	02:11:25	600	90	2.0	#56 Spectropho	4	
0090.COMP	5	6:26	06:42:37.2	02:11:25	600	90	2.0	#56 Spectropho	4	
0091.hs672	720	6:26	9:36:58.2	29:17:00	600	90	2.0	#122 Halo Star	4	
0092.COMP	10	6:26	9:36:58.2	29:17:00	600	90	2.0	#122 Halo Star	4	
0093.hs673	1200	6:26	9:37:12.1	29:26:36	600	90	2.0	#122 Halo Star	4	
0094.COMP	10	6:26	9:37:12.1	29:26:36	600	90	2.0	#122 Halo Star	4	
0095.hs674	420	6:26	9:37:47.9	29:03:14	600	90	2.0	#122 Halo Star	4	
0096.COMP	10	6:26	9:37:47.9	29:03:14	600	90	2.0	#122 Halo Star	4	
0097.hs675	840	6:26	9:37:52.2	28:44:24	600	90	2.0	#122 Halo Star	4	
0098.COMP	10	6:26	9:37:52.2	28:44:24	600	90	2.0	#122 Halo Star	4	
0099.hs676	1200	6:26	9:38:14.5	27:50:07	600	90	2.0	#122 Halo Star	4	
0100.COMP	10	6:26	9:38:14.5	27:50:07	600	90	2.0	#122 Halo Star	4	
0101.hs677	360	6:26	9:38:30.1	29:21:44	600	90	2.0	#122 Halo Star	4	
0102.COMP	10	6:26	9:38:30.1	29:21:44	600	90	2.0	#122 Halo Star	4	
0103.hs678	900	6:26	9:38:42.7	29:00:12	600	90	2.0	#122 Halo Star	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0104.COMP	10	6:26	9:38:42.7	29:00:12	600	90	2.0	#122 Halo Star	4	
0105.hs679	420	6:26	9:38:54.9	29:20:14	600	90	2.0	#122 Halo Star	4	
0106.COMP	10	6:26	9:38:54.9	29:20:14	600	90	2.0	#122 Halo Star	4	
0107.hs680	1200	6:26	9:39:41.2	28:53:26	600	90	2.0	#122 Halo Star	4	
0108.COMP	10	6:26	9:39:41.2	28:53:26	600	90	2.0	#122 Halo Star	4	
0109.hs681	240	6:26	9:39:42.8	28:08:55	600	90	2.0	#122 Halo Star	4	
0110.COMP	10	6:26	9:39:42.8	28:08:55	600	90	2.0	#122 Halo Star	4	
0111.hs682	540	6:26	9:40:00.4	28:50:23	600	90	2.0	#122 Halo Star	4	
0112.COMP	10	6:26	9:40:00.4	28:50:23	600	90	2.0	#122 Halo Star	4	
0113.hs683	1200	6:26	9:40:19.7	29:36:05	600	90	2.0	#122 Halo Star	4	
0114.COMP	10	6:26	9:40:19.7	29:36:05	600	90	2.0	#122 Halo Star	4	
0115.hs684	1200	6:26	9:41:25.4	29:10:06	600	90	2.0	#122 Halo Star	4	
0116.COMP	10	6:26	9:41:25.4	29:10:06	600	90	2.0	#122 Halo Star	4	
0117.hs685	1200	6:26	9:41:51.0	29:29:03	600	90	2.0	#122 Halo Star	4	
0118.COMP	10	6:26	9:41:51.0	29:29:03	600	90	2.0	#122 Halo Star	4	
0119.hs686	1200	6:26	9:41:51.4	29:33:41	600	90	2.0	#122 Halo Star	4	
0120.COMP	10	6:26	9:41:51.4	29:33:41	600	90	2.0	#122 Halo Star	4	
0121.hs687	720	6:26	9:41:52.7	28:55:36	600	90	2.0	#122 Halo Star	4	
0122.COMP	10	6:26	9:41:52.7	28:55:36	600	90	2.0	#122 Halo Star	4	
0123.hs688	360	6:26	9:43:25.8	29:34:02	600	90	2.0	#122 Halo Star	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0124.COMP	10	6:26	9:43:25.8	29:34:02	600	90	2.0	#122 Halo Star	4	
0125.hs689	1200	6:26	9:44:39.5	29:08:06	600	90	2.0	#122 Halo Star	4	
0126.COMP	10	6:26	9:44:39.5	29:08:06	600	90	2.0	#122 Halo Star	4	
0127.hs690	660	6:26	9:45:23.3	29:09:34	600	90	2.0	#122 Halo Star	4	
0128.COMP	10	6:26	9:45:23.3	29:09:34	600	90	2.0	#122 Halo Star	4	
0129.hs691	240	6:26	9:45:54.9	29:36:45	600	90	2.0	#122 Halo Star	4	
0130.COMP	10	6:26	9:45:54.9	29:36:45	600	90	2.0	#122 Halo Star	4	
0131.Feige34	120	6:26	10:36:41.2	43:21:50	600	90	2.0	#122 Halo Star	4	
0132.COMP	10	6:26	10:36:41.2	43:21:50	600	90	2.0	#122 Halo Star	4	600L, 2arcsec, tilt=435
0133-0142.FLAT	45	11:53	8:52:30.4	11:15:32	600	90	2.0	#10 M67	2	
0143.m67_6514	120	11:53	8:52:30.4	11:15:32	600	56	2.0	#10 M67 stars	2	
0144.COMP	45	11:53	8:52:30.4	11:15:32	600	56	2.0	#10 M67 stars	2	
0145.m67_6514	60	11:53	8:52:30.4	11:15:32	600	56	2.0	#10 M67 stars	2	
0146.COMP	45	11:53	8:52:30.4	11:15:32	600	56	2.0	#10 M67 stars	2	
0147.m67_6471	120	11:53	8:50:11.9	11:51:31	600	56	2.0	#10 M67 stars	2	
0148.COMP	45	11:53	8:50:11.9	11:51:31	600	56	2.0	#10 M67 stars	2	
0149.m67_6471	60	11:53	8:50:11.9	11:51:31	600	56	2.0	#10 M67 stars	2	
0150.COMP	45	11:53	8:50:11.9	11:51:31	600	56	2.0	#10 M67 stars	2	
0151.HD96436	1	11:53	11:04:21.1	+02:13:38	600	29	2.0	#10 M67 stars	2	
0152.COMP	45	11:53	11:04:21.1	+02:13:38	600	29	2.0	#10 M67 stars	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0153.HZ44	180	11:53	13:21:19.0	36:23:39	600	70	2.0	#56 Spectropho	2	
0154.COMP	45	11:53	13:21:19.0	36:23:39	600	70	2.0	#56 Spectropho	2	
0155.m67_6495	120	11:53	8:51:18.4	12:18:10	600	59	2.0	#10 M67 stars	2	
0156.COMP	45	11:53	8:51:18.4	12:18:10	600	59	2.0	#10 M67 stars	2	
0157.m67_6467	600	11:53	8:52:16.6	11:42:29	600	59	2.0	#10 M67 stars	2	
0158.m67_6467	600	11:53	8:52:16.6	11:42:29	600	59	2.0	#10 M67 stars	2	
0159.COMP	45	11:53	8:52:16.6	11:42:29	600	59	2.0	#10 M67 stars	2	
0160.HD101501	1	11:53	11:38:25.2	+34:29:02	600	96	2.0	#10 M67 stars	2	
0161.COMP	45	11:53	11:38:25.2	+34:29:02	600	96	2.0	#10 M67 stars	2	
0162.Feige66	60	11:53	12:34:54.7	25:20:31	600	49	2.0	#56 Spectropho	2	
0163.COMP	45	11:53	12:34:54.7	25:20:31	600	49	2.0	#56 Spectropho	2	
0164-0168.Sky	2	14:01	12:34:54.7	25:20:31	300	90	3.0	#57 Velocity S	4	
0169.COMP	5	14:01	12:34:54.7	25:20:31	300	90	3.0	#57 Velocity S	4	
0170-0179.BIAS	0	14:07	12:34:54.7	25:20:31	300	90	3.0	#57 Velocity S	4	
0180-0189.FLAT	6	14:11	12:34:54.7	25:20:31	300	90	3.0	#57 Velocity S	4	
0190-0199.BIAS	0	14:14	12:34:54.7	25:20:31	300	90	3.0	#57 Velocity S	2	
0200-0209.FLAT	12	14:18	12:34:54.7	25:20:31	300	90	3.0	#57 Velocity S	2	
0210-0219.DARK	900	16:37	12:34:54.7	25:20:31	300	90	3.0	#57 Velocity S	2	