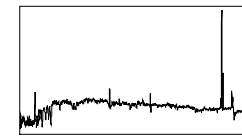


UT Date 2018-10-10 Observers P BerlindColl. Focus 1320 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.BIAS	0	01:56	19:48:00.0	+32:00:00	300	84	3.0	0 Calibration	2	
0002.BIAS	0	01:56	19:48:00.0	+32:00:00	300	84	3.0	0 Calibration	2	start of FAST run
0003-0009.BIAS	0	01:57	19:48:00.0	+32:00:00	300	84	3.0	0 Calibration	2	
0010.BIAS	0	01:57	19:48:00.0	+32:00:00	600	84	1.5	0 Calibration	2	
0011-0020.BIAS	0	01:59	20:00:00.0	+32:00:00	600	92	1.5	0 Calibration	4	
0021.FLAT	12	02:02	20:00:00.0	+32:00:00	600	92	1.5	0 Calibration	4	600-line, 445, 1.5-sec
0022-0035.FLAT	12	02:06	20:00:00.0	+32:00:00	600	92	1.5	0 Calibration	4	
0037.BDp284211	150	02:19	21:51:11.0	+28:51:50	600	92	1.5	#56 Spectropho	4	
0038.COMP	5	02:22	21:51:11.0	+28:51:50	600	92	1.5	0 Calibration	4	
0039.j2126p27	720	02:25	21:26:30.7	+27:26:29	600	92	1.5	#178 Low Mass	4	
0040.COMP	10	02:37	21:26:30.7	+27:26:29	600	90	1.5	0 Calibration	4	
0041.j2125p52	1800	02:40	21:25:49.8	+52:31:28	600	90	1.5	#178 Low Mass	4	
0042.COMP	10	03:11	21:25:49.8	+52:31:28	600	90	1.5	0 Calibration	4	
0043.j2124p17	1500	03:13	21:24:20.6	+17:47:28	600	90	1.5	#178 Low Mass	4	
0044.COMP	10	03:41	21:24:20.6	+17:47:28	600	90	1.5	0 Calibration	4	
0045.j2118m02	1200	03:43	21:18:34.6	-02:18:31	600	90	1.5	#178 Low Mass	4	
0046.COMP	10	04:04	21:18:34.6	-02:18:31	600	89	1.5	0 Calibration	4	
0047.j2157m02	1500	04:06	21:57:45.3	-02:01:31	600	89	1.5	#178 Low Mass	4	
0048.COMP	10	04:32	21:57:45.3	-02:01:31	600	89	1.5	0 Calibration	4	
0049.j2159p01	1800	04:33	21:59:23.4	+01:17:25	600	89	1.5	#178 Low Mass	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0050.COMP	10	05:14	21:59:23.4	+01:17:25	600	89	1.5	0 Calibration	4	
0051.j2159p02	1440	05:17	21:59:30.1	+01:38:39	600	89	1.5	#178 Low Mass	4	
0052.COMP	10	05:42	21:59:30.1	+01:38:39	600	89	1.5	0 Calibration	4	
0053.j2221p01	1800	05:44	22:21:30.8	+01:20:55	600	89	1.5	#178 Low Mass	4	
0054.COMP	10	06:15	22:21:30.8	+01:20:55	600	89	1.5	0 Calibration	4	
0055.j2225m09	1440	06:16	22:25:52.3	-09:59:58	600	89	1.5	#178 Low Mass	4	
0056.COMP	10	06:41	22:25:52.3	-09:59:58	600	89	1.5	0 Calibration	4	
0057.j2255m07	1500	06:44	22:55:49.8	-07:50:03	600	89	1.5	#178 Low Mass	4	
0058.COMP	10	07:09	22:55:49.8	-07:50:03	600	89	1.5	0 Calibration	4	
0059.j2355m19	1800	07:12	23:55:47.6	-19:16:24	600	89	1.5	#178 Low Mass	4	
0060.COMP	10	07:42	23:55:47.6	-19:16:24	600	88	1.5	0 Calibration	4	
0061.j0010m20	1440	07:44	00:10:15.8	-20:21:47	600	88	1.5	#178 Low Mass	4	
0062.COMP	10	08:09	00:10:15.8	-20:21:47	600	88	1.5	0 Calibration	4	
0063.j0008p14	1500	08:13	00:08:40.5	+14:12:33	600	94	1.5	#178 Low Mass	4	
0064.COMP	10	08:44	00:08:40.5	+14:12:33	600	95	1.5	0 Calibration	4	
0065.j0012p11	1560	08:47	00:12:24.4	+11:56:19	600	95	1.5	#178 Low Mass	4	
0066.COMP	10	09:13	00:12:24.4	+11:56:19	600	95	1.5	0 Calibration	4	
0067.j0008p08	1500	09:18	00:08:06.6	+08:20:05	600	86	1.5	#178 Low Mass	4	target off center at row 24
0068.COMP	10	09:44	00:08:06.6	+08:20:05	600	85	1.5	0 Calibration	4	
0069.j2356p37	1260	09:46	23:56:28.5	+37:43:59	600	85	1.5	#178 Low Mass	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0070.COMP	10	10:07	23:56:28.5	+37:43:59	600	85	1.5	0 Calibration	4	
0071.gaia36	120	10:10	05:00:51.8	-09:30:57	600	85	1.5	#178 Low Mass	4	
0072.COMP	10	10:13	05:00:51.8	-09:30:57	600	85	1.5	0 Calibration	4	
0077.COMP	10	10:26	04:45:00.0	+32:00:00	300	91	3.0	0 Calibration	2	
0078.BRUTUS8400_6	300	10:29	02:13:45.0	+04:06:08	300	91	3.0	#220 ASASSN Tr	2	
0079.BRUTUS8400_6	300	10:35	02:13:45.0	+04:06:08	300	91	3.0	#220 ASASSN Tr	2	
0080.BRUTUS8400_6	300	10:40	02:13:45.0	+04:06:08	300	91	3.0	#220 ASASSN Tr	2	
0081.COMP	10	10:46	02:13:45.0	+04:06:08	300	91	3.0	0 Calibration	2	
0082.AT2018gxd	1200	10:52	02:31:39.0	+49:14:06	300	91	3.0	#225	2	
0083.AT2018gxd	1200	11:12	02:31:39.0	+49:14:06	300	91	3.0	#225	2	
0084.AT2018gxd	1200	11:32	02:31:39.0	+49:14:06	300	91	3.0	#225	2	
0085.COMP	10	11:53	02:31:39.0	+49:14:06	300	90	3.0	0 Calibration	2	
0086.G191B2B	300	11:56	05:05:30.6	+52:49:52	300	87	3.0	#56 Spectropho	2	
0087.COMP	10	12:01	05:05:30.6	+52:49:52	300	87	3.0	0 Calibration	2	
0088-0097.BIAS	0	12:12	05:05:30.6	+52:49:52	300	87	3.0	0 Calibration	2	
0098-0112.FLAT	7	12:19	05:05:30.6	+52:49:52	300	87	3.0	0 Calibration	2	
0113-0117.DARK	900	13:26	05:05:30.6	+52:49:52	300	87	3.0	0 Calibration	2	
0118-0122.DARK	900	14:42	05:05:30.6	+52:49:52	300	87	3.0	0 Calibration	4	

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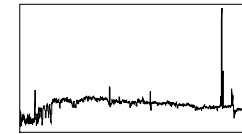
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	01:02	19:00:00.0	+32:00:00	300	87	3.0	0 Calibration	2	
0011-0020.BIAS	0	01:04	19:00:00.0	+32:00:00	600	87	1.5	0 Calibration	4	
0021.FLAT	12	01:07	19:00:00.0	+32:00:00	600	87	1.5	0 Calibration	4	600-line, 1.5 sec
0022.FLAT	12	01:07	19:00:00.0	+32:00:00	600	87	1.5	0 Calibration	4	
0023.FLAT	12	01:07	19:00:00.0	+32:00:00	600	87	1.5	0 Calibration	4	weak
0024-0034.FLAT	12	01:11	19:00:00.0	+32:00:00	600	87	1.5	0 Calibration	4	
0037.FLAT	22	01:34	19:00:00.0	+32:00:00	600	87	1.5	0 Calibration	4	
0038-0040.BIAS	0	01:37	19:55:16.4	+16:25:03	600	87	1.5	0 Calibration	4	
0041.FLAT	22	01:41	19:55:16.4	+16:25:03	600	87	1.5	0 Calibration	4	better
0042-0050.FLAT	22	01:45	19:55:16.4	+16:25:03	600	87	1.5	0 Calibration	4	
0051.BDp284211	150	01:58	21:51:11.0	+28:51:50	600	87	1.5	#56 Spectropho	4	
0052.COMP	10	02:01	21:51:11.0	+28:51:50	600	87	1.5	0 Calibration	4	
0053.j2122p12	1500	02:03	21:22:16.5	+12:30:56	600	87	1.5	#178 Low Mass	4	
0054.COMP	10	02:29	21:22:16.5	+12:30:56	600	89	1.5	0 Calibration	4	
0055.j2119p17	1740	02:30	21:19:04.0	+17:06:56	600	89	1.5	#178 Low Mass	4	
0056.COMP	10	03:00	21:19:04.0	+17:06:56	600	90	1.5	0 Calibration	4	
0057.j2123p15	1500	03:01	21:23:56.7	+15:33:24	600	90	1.5	#178 Low Mass	4	
0058.COMP	10	03:27	21:23:56.7	+15:33:24	600	90	1.5	0 Calibration	4	
0059.j2142p01	900	03:30	21:42:34.8	+01:27:44	600	90	1.5	#178 Low Mass	4	
0060.COMP	10	03:47	21:42:34.8	+01:27:44	600	90	1.5	0 Calibration	4	

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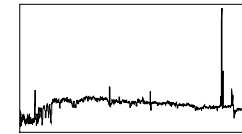
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0061.j2153p02	1200	03:50	21:53:57.0	+02:28:25	600	90	1.5	#178 Low Mass	4	
0062.COMP	10	04:10	21:53:57.0	+02:28:25	600	90	1.5	0 Calibration	4	
0063.j2151p07	1440	04:12	21:51:45.2	+07:32:54	600	90	1.5	#178 Low Mass	4	
0064.COMP	10	04:37	21:51:45.2	+07:32:54	600	90	1.5	0 Calibration	4	
0065.j2225m02	1253	04:38	22:25:03.7	-02:34:18	600	90	1.5	#178 Low Mass	4	
0066.COMP	10	05:00	22:25:03.7	-02:34:18	600	90	1.5	0 Calibration	4	
0067.j2236m01	900	05:36	22:36:07.8	-01:40:59	600	90	1.5	#178 Low Mass	4	
0068.COMP	10	05:52	22:36:07.8	-01:40:59	600	90	1.5	0 Calibration	4	
0069.j2243m06	1200	05:55	22:43:16.7	-06:44:50	600	90	1.5	#178 Low Mass	4	
0070.COMP	10	06:17	22:43:16.7	-06:44:50	600	90	1.5	0 Calibration	4	
0071.j2256p09	841	06:25	22:56:08.5	+08:53:52	600	90	1.5	#178 Low Mass	4	stopped by fog
0072.COMP	10	06:56	22:56:08.5	+08:53:52	600	90	1.5	0 Calibration	4	
0073.test	10	10:34	22:56:08.5	+08:53:52	300	90	3.0	#178 Low Mass	2	
0074.test	10	10:36	22:56:08.5	+08:53:52	300	90	3.0	#178 Low Mass	2	
0075-0079.DARK	900	11:39	22:56:08.5	+08:53:52	300	90	3.0	0 Calibration	2	
0080-0084.DARK	900	12:55	22:56:08.5	+08:53:52	300	90	3.0	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	01:52	00:00:00.0	+00:00:00	300	90	3.0	0 Calibration	4	
0011-0020.BIAS	0	03:22	00:00:00.0	+00:00:00	300	90	3.0	0 Calibration	4	
0021-0040.FLAT	7	05:06	00:00:00.0	+00:00:00	300	90	3.0	0 Calibration	2	
0041-0050.BIAS	0	05:47	00:00:00.0	+00:00:00	300	90	3.0	0 Calibration	2	
0051.AGPeg	1	05:55	21:51:02.0	+12:37:33	300	90	3.0	#12 Symbiotic	2	
0052.AGPeg	10	05:56	21:51:02.0	+12:37:33	300	90	3.0	#12 Symbiotic	2	
0053.AGPeg	30	05:56	21:51:02.0	+12:37:33	300	90	3.0	#12 Symbiotic	2	
0054.COMP	10	05:57	21:51:02.0	+12:37:33	300	90	3.0	0 Calibration	2	
0055.ZAnd	1	06:00	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0056.ZAnd	5	06:00	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0057.ZAnd	30	06:00	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0058.COMP	10	06:01	23:33:40.0	+48:49:06	300	90	3.0	0 Calibration	2	
0059.RAqr	1	06:04	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0060.RAqr	5	06:05	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0061.RAqr	10	06:06	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0062.COMP	10	06:07	23:43:49.0	-15:17:05	300	90	3.0	0 Calibration	2	
0063.EGAnd	1	06:09	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0064.EGAnd	5	06:09	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0065.EGAnd	10	06:11	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0066.COMP	10	06:11	00:44:37.0	+40:40:47	300	90	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.BRUTUS8402_10	1800	06:15	23:54:51.0	+05:42:58	300	90	3.0	#220 ASASSN Tr	2	
0068.COMP	10	06:46	23:54:51.0	+05:42:58	300	90	3.0	0 Calibration	2	
0069.SN2018gft	1800	07:02	23:57:18.0	-15:37:53	300	90	3.0	#225	2	
0070.SN2018gft	1800	07:32	23:57:18.0	-15:37:53	300	90	3.0	#225	2	
0071.SN2018gft	1800	08:02	23:57:18.0	-15:37:53	300	90	3.0	#225	2	
0072.COMP	10	08:33	23:57:18.0	-15:37:53	300	90	3.0	0 Calibration	2	
0073.BRUTUS8404_2	1800	08:36	00:13:31.1	+40:51:37	300	90	3.0	#220 ASASSN Tr	2	
0074.BRUTUS8404_2	1800	09:22	00:13:31.1	+40:51:37	300	90	3.0	#220 ASASSN Tr	2	
0075.COMP	10	09:53	00:13:31.1	+40:51:37	300	89	3.0	0 Calibration	2	
0076.PS16dtm	1800	10:06	01:58:04.7	-00:52:22	300	89	3.0	#225	2	
0077.COMP	10	11:03	01:58:04.7	-00:52:22	300	88	3.0	0 Calibration	2	
0078.HD19445	10	11:43	03:08:25.6	+26:19:51	300	88	3.0	#56 Spectropho	2	
0079.COMP	10	11:44	03:08:25.6	+26:19:51	300	88	3.0	0 Calibration	2	
0080.G191B2B	300	11:46	05:05:30.6	+52:49:52	300	83	3.0	#56 Spectropho	2	
0081.COMP	10	11:51	05:05:30.6	+52:49:52	300	84	3.0	0 Calibration	2	
0082.BRUTUS8403_2	600	11:55	03:04:27.5	+07:36:15	300	84	3.0	#220 ASASSN Tr	2	
0083.COMP	10	12:06	03:04:27.5	+07:36:15	300	84	3.0	0 Calibration	2	
0084.AT2018gkr	720	12:09	08:17:26.4	+10:12:10	300	84	3.0	#225	2	
0085.COMP	10	12:21	08:17:26.4	+10:12:10	300	87	3.0	0 Calibration	2	
0086.ZTF18abtzzlv	600	12:23	06:53:04.6	+52:23:22	300	87	3.0	#225	2	

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<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0087.COMP	10	12:34	06:53:04.6	+52:23:22	300	86	3.0	0 Calibration	2	
0088-0097.BIAS	0	12:39	06:53:04.6	+52:23:22	300	86	3.0	0 Calibration	2	
0098-0117.FLAT	7	12:46	06:53:04.6	+52:23:22	300	86	3.0	0 Calibration	2	
0118-0125.DARK	900	14:36	06:53:04.6	+52:23:22	300	86	3.0	0 Calibration	2	