

UT Date 2009-06-20 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|--------------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------------------|
| 0001-0005.DARK | 900 | 03:26 | 12:52:11.8 | +31:33:29 | 300 | 89 | 3.0 | #188 Dwarf C S | 2 | |
| 0006-0015.BIAS | 0 | 03:43 | 12:52:11.8 | +31:33:29 | 300 | 89 | 3.0 | #188 Dwarf C S | 2 | |
| 0016-0025.FLAT | 7 | 03:47 | 12:52:11.8 | +31:33:29 | 300 | 89 | 3.0 | #188 Dwarf C S | 2 | |
| 0026-0035.BIAS | 0 | 03:50 | 12:52:11.8 | +31:33:29 | 300 | 89 | 3.0 | #188 Dwarf C S | 2 | |
| 0036-0045.FLAT | 7 | 03:54 | 12:52:11.8 | +31:33:29 | 300 | 89 | 3.0 | #188 Dwarf C S | 2 | |
| 0046.BDp262606 | 60 | 04:02 | 14:49:02.4 | +25:42:09 | 300 | -33 | 3.0 | #56 Spectropho | 2 | |
| 0047.COMP | 10 | 04:04 | 14:49:02.4 | +25:42:09 | 300 | -33 | 3.0 | #56 Spectropho | 2 | |
| 0048.BDp332642 | 120 | 04:09 | 15:51:59.9 | +32:56:54 | 300 | 88 | 3.0 | #56 Spectropho | 2 | |
| 0049.COMP | 10 | 04:12 | 15:51:59.9 | +32:56:54 | 300 | 88 | 3.0 | #56 Spectropho | 2 | |
| 0050.N5866 | 240 | 04:32 | 15:06:29.5 | +55:45:48 | 300 | 88 | 3.0 | #57 Velocity S | 2 | clouds and soup |
| 0051.COMP | 10 | 04:37 | 15:06:29.5 | +55:45:48 | 300 | 88 | 3.0 | #57 Velocity S | 2 | |
| 0052.2M150458.28+2600510 | 1500 | 04:48 | 15:04:58.3 | +26:00:51 | 300 | 88 | 3.0 | #141 Mapping t | 2 | |
| 0053.COMP | 10 | 05:15 | 15:04:58.3 | +26:00:51 | 300 | 88 | 3.0 | #141 Mapping t | 2 | |
| 0054.sn2009gf | 1800 | 05:18 | 14:15:37.1 | +14:16:49 | 300 | 47 | 3.0 | #2 SN Observat | 2 | |
| 0055.COMP | 10 | 05:49 | 14:15:37.1 | +14:16:49 | 300 | 47 | 3.0 | #2 SN Observat | 2 | |
| 0056.sn2009dc | 1800 | 05:51 | 15:51:12.1 | +25:42:28 | 300 | 46 | 3.0 | #2 SN Observat | 2 | |
| 0057.COMP | 10 | 06:22 | 15:51:12.1 | +25:42:28 | 300 | 46 | 3.0 | #2 SN Observat | 2 | |
| 0058.sn2009fv | 1800 | 06:25 | 16:29:44.2 | +40:48:42 | 300 | -30 | 3.0 | #2 SN Observat | 2 | |
| 0059.COMP | 10 | 06:56 | 16:29:44.2 | +40:48:42 | 300 | -30 | 3.0 | #2 SN Observat | 2 | |
| 0060.FLAT | 12 | 07:04 | 16:29:44.2 | +40:48:42 | 600 | 89 | 2.0 | #2 SN Observat | 4 | 2arcsec, 600L, tilt=445 |

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|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0061-0069.FLAT | 12 | 07:07 | 16:29:44.2 | +40:48:42 | 600 | 89 | 2.0 | #2 SN Observat | 4 | |
| 0070-0079.BIAS | 0 | 07:09 | 16:29:44.2 | +40:48:42 | 600 | 89 | 2.0 | #2 SN Observat | 4 | |
| 0080.BDp332642 | 90 | 07:13 | 15:51:59.9 | +32:56:54 | 600 | 89 | 2.0 | #56 Spectropho | 4 | |
| 0081.COMP | 12 | 07:15 | 15:51:59.9 | +32:56:54 | 600 | 89 | 2.0 | #56 Spectropho | 4 | |
| 0082.bhvs153 | 1200 | 07:18 | 15:45:15.8 | +01:56:03 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0083.COMP | 10 | 07:39 | 15:45:15.8 | +01:56:03 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0084.bhvs154 | 720 | 07:40 | 15:45:27.7 | +05:54:12 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0085.COMP | 10 | 07:52 | 15:45:27.7 | +05:54:12 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0086.bhvs156 | 1740 | 07:54 | 15:45:39.0 | +05:24:32 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0087.COMP | 10 | 08:23 | 15:45:39.0 | +05:24:32 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0088.bhvs339 | 780 | 08:25 | 17:50:01.0 | +41:40:02 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0089.COMP | 10 | 08:39 | 17:50:01.0 | +41:40:02 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0090.bhvs340 | 720 | 08:40 | 17:53:10.5 | +49:08:06 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0091.COMP | 10 | 08:53 | 17:53:10.5 | +49:08:06 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0092.bhvs341 | 1020 | 08:56 | 17:53:57.3 | +58:15:49 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0093.COMP | 10 | 09:13 | 17:53:57.3 | +58:15:49 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0094.bhvs342 | 960 | 09:15 | 17:55:14.0 | +40:26:14 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0095.COMP | 10 | 09:31 | 17:55:14.0 | +40:26:14 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0096.bhvs343 | 720 | 09:32 | 17:56:48.7 | +43:13:30 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |
| 0097.COMP | 10 | 09:45 | 17:56:48.7 | +43:13:30 | 600 | 89 | 2.0 | #182 Runaway B | 4 | |

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|------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|-------------|
| 0098.sn2009gh | 1800 | 10:08 | 19:29:06.6 | +72:08:13 | 300 | -31 | 3.0 | #2 SN Observat | 2 | combo setup |
| 0099.COMP | 10 | 10:38 | 19:29:06.6 | +72:08:13 | 300 | -31 | 3.0 | #2 SN Observat | 2 | |
| 0100.IPHASB_2436 | 720 | 10:46 | 19:01:42.1 | -04:36:21 | 300 | 90 | 3.0 | #157 IPHAS | 2 | |
| 0101.COMP | 10 | 10:59 | 19:01:42.1 | -04:36:21 | 300 | 90 | 3.0 | #157 IPHAS | 2 | |
| 0102.IPHASB_2439 | 720 | 11:00 | 19:02:02.1 | +10:26:03 | 300 | 90 | 3.0 | #157 IPHAS | 2 | row=84 |
| 0103.COMP | 10 | 11:13 | 19:02:02.1 | +10:26:03 | 300 | 90 | 3.0 | #157 IPHAS | 2 | |
| 0104.BDp174708 | 60 | 11:16 | 22:11:31.4 | +18:05:34 | 300 | -22 | 3.0 | #56 Spectropho | 2 | |
| 0105.COMP | 10 | 11:18 | 22:11:31.4 | +18:05:34 | 300 | -22 | 3.0 | #56 Spectropho | 2 | |
| 0106.BDp284211 | 90 | 11:20 | 21:51:11.0 | +28:51:50 | 300 | -1 | 3.0 | #56 Spectropho | 2 | |
| 0107.COMP | 10 | 11:22 | 21:51:11.0 | +28:51:50 | 300 | -1 | 3.0 | #56 Spectropho | 2 | |
| 0108.N7331 | 180 | 11:24 | 22:37:04.1 | +34:24:56 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0109.COMP | 10 | 11:28 | 22:37:04.1 | +34:24:56 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0110-0119.BIAS | 0 | 11:31 | 22:37:04.1 | +34:24:56 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0120-0139.FLAT | 7 | 11:39 | 22:37:04.1 | +34:24:56 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |
| 0140-0144.DARK | 900 | 12:42 | 22:37:04.1 | +34:24:56 | 300 | 90 | 3.0 | #57 Velocity S | 4 | |
| 0145-0149.DARK | 900 | 13:59 | 22:37:04.1 | +34:24:56 | 300 | 90 | 3.0 | #57 Velocity S | 2 | |