



## WHIPPLE OBSERVATORY

## FAST SPECTROGRAPH LOG



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UT Date 2005-04-30 Observers M Calkins

Coll. Focus 1000 Grating/Grism 300

| File           | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bin | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0001.DARK      | 900      | 0:17     | 07:40:30.0 | +31:30:25 | 300 | 90   | 3.0  | #64 Cluster an | 4   |          |
| 0002.DARK      | 900      | 0:32     | 07:55:37.1 | +31:30:31 | 300 | 90   | 3.0  | #64 Cluster an | 4   |          |
| 0003.DARK      | 900      | 0:47     | 08:10:48.1 | +31:30:37 | 300 | 90   | 3.0  | #64 Cluster an | 4   |          |
| 0004.DARK      | 900      | 1:02     | 08:25:54.9 | +31:30:43 | 300 | 90   | 3.0  | #64 Cluster an | 4   |          |
| 0005.DARK      | 900      | 1:18     | 08:41:05.8 | +31:30:48 | 300 | 90   | 3.0  | #64 Cluster an | 4   |          |
| 0006.DARK      | 900      | 1:33     | 08:56:13.1 | +31:30:54 | 300 | 90   | 3.0  | #64 Cluster an | 4   |          |
| 0007.DARK      | 900      | 1:48     | 09:11:23.9 | +31:30:59 | 300 | 90   | 3.0  | #64 Cluster an | 4   |          |
| 0008.DARK      | 900      | 2:03     | 09:26:31.2 | +31:31:04 | 300 | 90   | 3.0  | #64 Cluster an | 4   |          |
| 0009.DARK      | 900      | 2:18     | 09:41:41.8 | +31:31:09 | 300 | 90   | 3.0  | #64 Cluster an | 4   |          |
| 0010.DARK      | 900      | 2:33     | 09:56:52.7 | +31:31:13 | 300 | 90   | 3.0  | #64 Cluster an | 4   |          |
| 0011-0020.BIAS | 0        | 3:00     | 10:09:01.8 | +31:31:16 | 300 | 90   | 3.0  | #64 Cluster an | 4   |          |
| 0021-0030.FLAT | 6        | 3:03     | 10:11:47.4 | +31:31:17 | 300 | 90   | 3.0  | #64 Cluster an | 4   |          |
| 0031-0040.BIAS | 0        | 3:07     | 10:15:58.6 | +31:31:18 | 300 | 90   | 3.0  | #64 Cluster an | 2   |          |
| 0041-0042.FLAT | 12       | 3:08     | 10:17:03.4 | +31:31:18 | 300 | 90   | 3.0  | #64 Cluster an | 2   |          |
| 0043-0050.FLAT | 12       | 3:11     | 10:20:18.6 | +31:31:19 | 300 | 90   | 3.0  | #64 Cluster an | 2   |          |
| 0051.HD84937   | 10       | 3:18     | 09:48:54.8 | 13:45:13  | 300 | 24   | 3.0  | #56 Spectropho | 2   |          |
| 0052.HD84937   | 10       | 3:20     | 09:48:54.8 | 13:45:13  | 300 | 24   | 3.0  | #56 Spectropho | 2   |          |
| 0053.COMP      | 12       | 3:20     | 09:48:54.8 | 13:45:13  | 300 | 24   | 3.0  | #56 Spectropho | 2   |          |
| 0054.Feige34   | 60       | 3:25     | 10:39:36.8 | 43:06:10  | 300 | 20   | 3.0  | #56 Spectropho | 2   |          |
| 0055.Feige34   | 70       | 3:26     | 10:39:36.8 | 43:06:10  | 300 | 20   | 3.0  | #56 Spectropho | 2   |          |



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Coll. Focus 1000 Grating/Grism 300

| File          | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bin | Comments |
|---------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0056.Feige34  | 70       | 3:28     | 10:39:36.8 | 43:06:10  | 300 | 20   | 3.0  | #56 Spectropho | 2   |          |
| 0057.COMP     | 12       | 3:29     | 10:39:36.8 | 43:06:10  | 300 | 20   | 3.0  | #56 Spectropho | 2   |          |
| 0058.BXMon    | 15       | 3:32     | 7:25:23    | -03:35:51 | 300 | 90   | 3.0  | #12 Symbiotic  | 2   |          |
| 0059.BXMon    | 180      | 3:32     | 7:25:23    | -03:35:51 | 300 | 90   | 3.0  | #12 Symbiotic  | 2   |          |
| 0060.COMP     | 12       | 3:38     | 7:25:23    | -03:35:51 | 300 | 90   | 3.0  | #12 Symbiotic  | 2   |          |
| 0061.N3227    | 150      | 3:41     | 10:23:30.6 | +19:51:54 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |          |
| 0062.N3227    | 150      | 3:43     | 10:23:30.6 | +19:51:54 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |          |
| 0063.COMP     | 12       | 3:46     | 10:23:30.6 | +19:51:54 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |          |
| 0064.sn2005bf | 900      | 3:49     | 10:23:57.2 | -03:11:28 | 300 | 20   | 3.0  | #2 SN Observat | 2   |          |
| 0065.sn2005bf | 900      | 4:05     | 10:23:57.2 | -03:11:28 | 300 | 20   | 3.0  | #2 SN Observat | 2   |          |
| 0066.COMP     | 12       | 4:21     | 10:23:57.2 | -03:11:28 | 300 | 20   | 3.0  | #2 SN Observat | 2   |          |
| 0067.MRK421   | 300      | 4:24     | 11:04:27.4 | +38:12:32 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |          |
| 0068.MRK421   | 300      | 4:29     | 11:04:27.4 | +38:12:32 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |          |
| 0069.MRK421   | 300      | 4:35     | 11:04:27.4 | +38:12:32 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |          |
| 0070.COMP     | 12       | 4:40     | 11:04:27.4 | +38:12:32 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |          |
| 0071.1216_04  | 780      | 4:44     | 11:16:4.2  | -04:19:07 | 300 | 90   | 3.0  | #64 Cluster an | 2   |          |
| 0072.COMP     | 12       | 4:57     | 11:16:4.2  | -04:19:07 | 300 | 90   | 3.0  | #64 Cluster an | 2   |          |
| 0073.1216_05  | 780      | 4:59     | 11:16:3.5  | -04:16:15 | 300 | 90   | 3.0  | #64 Cluster an | 2   |          |
| 0074.COMP     | 12       | 5:12     | 11:16:3.5  | -04:16:15 | 300 | 90   | 3.0  | #64 Cluster an | 2   |          |
| 0075.1216_06  | 1020     | 5:14     | 11:17:32.3 | -04:07:15 | 300 | 90   | 3.0  | #64 Cluster an | 2   |          |



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Coll. Focus 1000 Grating/Grism 300

| File           | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bin | Comments   |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|------------|
| 0076.1216_06   | 1020     | 5:32     | 11:17:32.3 | -04:07:15 | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0077.COMP      | 12       | 5:50     | 11:17:32.3 | -04:07:15 | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0078.1216_07   | 900      | 5:51     | 11:18:36.0 | -04:05:52 | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0079.COMP      | 12       | 6:06     | 11:18:36.0 | -04:05:52 | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0080.1216_08   | 1200     | 6:07     | 11:18:56.8 | -04:01:20 | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0081.COMP      | 12       | 6:28     | 11:18:56.8 | -04:01:20 | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0082.1216_09   | 780      | 6:29     | 11:17:51.6 | -04:00:44 | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0083.COMP      | 12       | 6:43     | 11:17:51.6 | -04:00:44 | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0084.1291_04   | 960      | 6:46     | 11:32:28.4 | 55:59:48  | 300 | 90   | 3.0  | #64 Cluster an | 2   | get again? |
| 0085.COMP      | 12       | 7:02     | 11:32:28.4 | 55:59:48  | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0086.sn2005az  | 1200     | 7:06     | 13:05:46.9 | +27:44:08 | 300 | 71   | 3.0  | #2 SN Observat | 2   |            |
| 0087.COMP      | 12       | 7:26     | 13:05:46.9 | +27:44:08 | 300 | 71   | 3.0  | #2 SN Observat | 2   |            |
| 0088.1291_05   | 720      | 7:28     | 11:30:24.8 | 56:08:26  | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0089.COMP      | 12       | 7:47     | 11:30:24.8 | 56:08:26  | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0090.1291_06   | 1200     | 7:50     | 11:32:38.8 | 56:11:09  | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0091.COMP      | 12       | 8:10     | 11:32:38.8 | 56:11:09  | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0092.1291_07   | 1200     | 8:11     | 11:34:27.7 | 56:11:55  | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0093.COMP      | 12       | 8:32     | 11:34:27.7 | 56:11:55  | 300 | 90   | 3.0  | #64 Cluster an | 2   |            |
| 0094.sn2005bvv | 900      | 8:38     | 14:24:07.4 | +26:17:50 | 300 | 68   | 3.0  | #2 SN Observat | 2   |            |
| 0095.sn2005bvv | 900      | 8:53     | 14:24:07.4 | +26:17:50 | 300 | 68   | 3.0  | #2 SN Observat | 2   |            |



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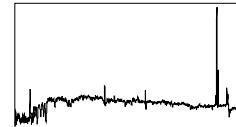
Coll. Focus 1000 Grating/Grism 300

| File               | Exp Time | UT Start | RA         | Dec       | Gr. | P.A. | Slit | Program        | Bin | Comments       |
|--------------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------------|
| 0096.COMP          | 12       | 9:09     | 14:24:07.4 | +26:17:50 | 300 | 68   | 3.0  | #2 SN Observat | 2   |                |
| 0097.MRK279        | 120      | 9:12     | 13:51:53.6 | 69:33:13  | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                |
| 0098.MRK279        | 120      | 9:14     | 13:51:53.6 | 69:33:13  | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                |
| 0099.COMP          | 12       | 9:16     | 13:51:53.6 | 69:33:13  | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                |
| 0100.N5548         | 150      | 9:18     | 14:17:59.6 | +25:08:12 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                |
| 0101.N5548         | 150      | 9:21     | 14:17:59.6 | +25:08:12 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                |
| 0102.N5548         | 150      | 9:23     | 14:17:59.6 | +25:08:12 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                |
| 0103.COMP          | 12       | 9:26     | 14:17:59.6 | +25:08:12 | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                |
| 0104.XS01588B7_001 | 1500     | 9:30     | 14:06:54.3 | +34:09:49 | 300 | 70   | 3.0  | #129 CHAMP Sou | 2   |                |
| 0105.COMP          | 12       | 9:56     | 14:06:54.3 | +34:09:49 | 300 | 70   | 3.0  | #129 CHAMP Sou | 2   |                |
| 0106.XS02254B0_023 | 900      | 9:58     | 14:10:19.1 | +52:13:14 | 300 | 90   | 3.0  | #129 CHAMP Sou | 2   |                |
| 0107.XS02254B0_023 | 900      | 10:13    | 14:10:19.1 | +52:13:14 | 300 | 90   | 3.0  | #129 CHAMP Sou | 2   | will get again |
| 0108.COMP          | 12       | 10:28    | 14:10:19.1 | +52:13:14 | 300 | 90   | 3.0  | #129 CHAMP Sou | 2   |                |
| 0109.XS00822B7_011 | 1200     | 10:51    | 15:44:24.1 | +53:55:46 | 300 | 90   | 3.0  | #129 CHAMP Sou | 2   |                |
| 0110.XS00822B7_011 | 1200     | 11:11    | 15:44:24.1 | +53:55:46 | 300 | 90   | 3.0  | #129 CHAMP Sou | 2   |                |
| 0111.COMP          | 12       | 11:32    | 15:44:24.1 | +53:55:46 | 300 | 90   | 3.0  | #129 CHAMP Sou | 2   |                |
| 0112.3C390.3       | 300      | 11:34    | 18:42:09.0 | 79:46:17  | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                |
| 0113.3C390.3       | 300      | 11:39    | 18:42:09.0 | 79:46:17  | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                |
| 0114.3C390.3       | 300      | 11:44    | 18:42:09.0 | 79:46:17  | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                |
| 0115.COMP          | 12       | 11:50    | 18:42:09.0 | 79:46:17  | 300 | 90   | 3.0  | #6 AGN Monitor | 2   |                |



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| File           | Exp Time | UT Start | RA         | Dec      | Gr. | P.A. | Slit | Program        | Bin | Comments |
|----------------|----------|----------|------------|----------|-----|------|------|----------------|-----|----------|
| 0116.BDp332642 | 60       | 11:52    | 15:51:59.9 | 32:56:54 | 300 | 90   | 3.0  | #56 Spectropho | 2   |          |
| 0117.COMP      | 12       | 11:54    | 15:51:59.9 | 32:56:54 | 300 | 90   | 3.0  | #56 Spectropho | 2   |          |
| 0118-0122.sky  | 2        | 12:22    | 15:51:59.9 | 32:56:54 | 300 | 90   | 3.0  | #57 Velocity S | 4   |          |
| 0123.COMP      | 5        | 12:23    | 15:51:59.9 | 32:56:54 | 300 | 90   | 3.0  | #57 Velocity S | 4   |          |
| 0124-0133.BIAS | 0        | 12:33    | 15:51:59.9 | 32:56:54 | 300 | 90   | 3.0  | #57 Velocity S | 4   |          |
| 0134-0143.FLAT | 6        | 12:35    | 15:51:59.9 | 32:56:54 | 300 | 90   | 3.0  | #57 Velocity S | 4   |          |
| 0144-0153.BIAS | 0        | 12:38    | 15:51:59.9 | 32:56:54 | 300 | 90   | 3.0  | #57 Velocity S | 2   |          |
| 0154-0163.FLAT | 12       | 12:43    | 15:51:59.9 | 32:56:54 | 300 | 90   | 3.0  | #57 Velocity S | 2   |          |
| 0164-0173.DARK | 900      | 15:01    | 15:51:59.9 | 32:56:54 | 300 | 90   | 3.0  | #57 Velocity S | 2   |          |