



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



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UT Date 2002-02-17 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 | 1:06 | 03:44:21.0 | 31:30:00 | 300 | 100 | 3.0 | #133 MRK421 | 4 | |
| 0002.DARK | 900 | 1:21 | 03:59:32.0 | 31:30:02 | 300 | 100 | 3.0 | #133 MRK421 | 4 | |
| 0003.DARK | 900 | 1:36 | 04:14:39.0 | 31:30:04 | 300 | 100 | 3.0 | #133 MRK421 | 4 | |
| 0004.DARK | 900 | 1:51 | 04:29:50.0 | 31:30:07 | 300 | 100 | 3.0 | #133 MRK421 | 4 | |
| 0005.DARK | 900 | 2:06 | 04:44:57.0 | 31:30:09 | 300 | 100 | 3.0 | #133 MRK421 | 4 | |
| 0006.DARK | 900 | 2:21 | 05:00:08.0 | 31:30:12 | 300 | 100 | 3.0 | #133 MRK421 | 4 | |
| 0007.DARK | 900 | 2:36 | 05:15:19.0 | 31:30:14 | 300 | 100 | 3.0 | #133 MRK421 | 4 | |
| 0008.DARK | 900 | 2:51 | 05:30:26.0 | 31:30:17 | 300 | 100 | 3.0 | #133 MRK421 | 4 | |
| 0009.DARK | 900 | 3:07 | 05:45:37.0 | 31:30:19 | 300 | 100 | 3.0 | #133 MRK421 | 4 | |
| 0010.DARK | 900 | 3:22 | 06:00:44.0 | 31:30:22 | 300 | 100 | 3.0 | #133 MRK421 | 4 | |
| 0011-0020.BIAS | 0 | 10:26 | 12:50:44.0 | 31:31:15 | 300 | 100 | 3.0 | #133 MRK421 | 4 | |
| 0021-0030.FLAT | 6 | 10:28 | 12:53:34.0 | 31:31:15 | 300 | 100 | 3.0 | #133 MRK421 | 4 | |
| 0031-0040.BIAS | 0 | 10:31 | 12:56:44.0 | 31:31:15 | 300 | 100 | 3.0 | #133 MRK421 | 2 | |
| 0041-0050.FLAT | 12 | 10:37 | 13:02:41.0 | 31:31:15 | 300 | 100 | 3.0 | #133 MRK421 | 2 | |
| 0051.Feige34 | 300 | 10:53 | 10:36:41.2 | 43:21:50 | 300 | 100 | 3.0 | #56 Spectropho | 2 | |
| 0052.COMP | 12 | 10:58 | 10:36:41.2 | 43:21:50 | 300 | 100 | 3.0 | #56 Spectropho | 2 | |
| 0053.Feige34 | 480 | 10:59 | 10:36:41.2 | 43:21:50 | 300 | 95 | 3.0 | #56 Spectropho | 2 | |
| 0054.COMP | 12 | 11:08 | 10:36:41.2 | 43:21:50 | 300 | 95 | 3.0 | #56 Spectropho | 2 | |
| 0055.MRK421 | 1200 | 11:12 | 11:04:27.4 | +38:12:32 | 300 | 89 | 3.0 | #133 MRK421 | 2 | |
| 0056.COMP | 12 | 11:23 | 11:04:27.4 | +38:12:32 | 300 | 89 | 3.0 | #133 MRK421 | 2 | |



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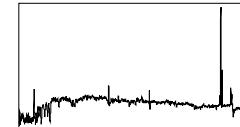
Coll. Focus 1000 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bin | Comments |
|---------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0057.MRK421 | 600 | 11:24 | 11:04:27.4 | +38:12:32 | 300 | 89 | 3.0 | #133 MRK421 | 2 | |
| 0058.COMP | 12 | 11:34 | 11:04:27.4 | +38:12:32 | 300 | 89 | 3.0 | #133 MRK421 | 2 | |
| 0059.MRK421 | 600 | 11:35 | 11:04:27.4 | +38:12:32 | 300 | 89 | 3.0 | #133 MRK421 | 2 | |
| 0060.COMP | 12 | 11:45 | 11:04:27.4 | +38:12:32 | 300 | 89 | 3.0 | #133 MRK421 | 2 | |
| 0061.sn2002aw | 1200 | 11:51 | 16:37:29.0 | 40:52:50 | 300 | 82 | 3.0 | #2 SN Observat | 2 | |
| 0062.COMP | 12 | 12:11 | 16:37:29.0 | 40:52:50 | 300 | 82 | 3.0 | #2 SN Observat | 2 | |
| 0063.sn2002aw | 1200 | 12:12 | 16:37:29.0 | 40:52:50 | 300 | 82 | 3.0 | #2 SN Observat | 2 | |
| 0064.COMP | 12 | 12:32 | 16:37:29.0 | 40:52:50 | 300 | 82 | 3.0 | #2 SN Observat | 2 | |
| 0065.N4051 | 240 | 12:35 | 12:03:09.7 | +44:31:53 | 300 | 82 | 3.0 | #6 AGN Monitor | 2 | |
| 0066.N4051 | 240 | 12:39 | 12:03:09.7 | +44:31:53 | 300 | 82 | 3.0 | #6 AGN Monitor | 2 | |
| 0067.N4051 | 240 | 12:44 | 12:03:09.7 | +44:31:53 | 300 | 82 | 3.0 | #6 AGN Monitor | 2 | |
| 0068.COMP | 12 | 12:48 | 12:03:09.7 | +44:31:53 | 300 | 82 | 3.0 | #6 AGN Monitor | 2 | |
| 0069.N4151 | 45 | 12:49 | 12:10:32.6 | +39:24:21 | 300 | 82 | 3.0 | #6 AGN Monitor | 2 | |
| 0070.N4151 | 45 | 12:50 | 12:10:32.6 | +39:24:21 | 300 | 82 | 3.0 | #6 AGN Monitor | 2 | |
| 0071.N4151 | 45 | 12:51 | 12:10:32.6 | +39:24:21 | 300 | 82 | 3.0 | #6 AGN Monitor | 2 | |
| 0072.COMP | 12 | 12:52 | 12:10:32.6 | +39:24:21 | 300 | 82 | 3.0 | #6 AGN Monitor | 2 | |
| 0073.N5548 | 120 | 12:54 | 14:17:59.6 | +25:08:12 | 300 | 82 | 3.0 | #6 AGN Monitor | 2 | |
| 0074.N5548 | 120 | 12:56 | 14:17:59.6 | +25:08:12 | 300 | 82 | 3.0 | #6 AGN Monitor | 2 | |
| 0075.N5548 | 120 | 12:59 | 14:17:59.6 | +25:08:12 | 300 | 82 | 3.0 | #6 AGN Monitor | 2 | |
| 0076.COMP | 12 | 13:01 | 14:17:59.6 | +25:08:12 | 300 | 82 | 3.0 | #6 AGN Monitor | 2 | |



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UT Date 2002-02-17 Observers M CalkinsColl. Focus 1000 Grating/Grism 300

| File | Exp Time | UT Start | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
|----------------|----------|----------|------------|-----------|-----|------|------|----------------|-----|----------|
| 0077-0086.BIAS | 0 | 13:24 | 16:37:29.0 | +40:52:50 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0087-0096.FLAT | 6 | 13:26 | 16:37:29.0 | +40:52:50 | 300 | 90 | 3.0 | #2 SN Observat | 4 | |
| 0097-0106.BIAS | 0 | 13:29 | 16:37:29.0 | +40:52:50 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0107-0116.FLAT | 12 | 13:33 | 16:37:29.0 | +40:52:50 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |
| 0117-0126.DARK | 900 | 15:52 | 16:37:29.0 | +40:52:50 | 300 | 90 | 3.0 | #2 SN Observat | 2 | |