10540 - Imaging Nearby Dusty Disks
Cycle: 14, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-Mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Alycia J. Weinberger</td>
<td>Carnegie Institution of Washington</td>
<td><a href="mailto:weinberger@dtm.ciw.edu">weinberger@dtm.ciw.edu</a></td>
</tr>
<tr>
<td>Prof. Eric E. Becklin</td>
<td>University of California - Los Angeles</td>
<td><a href="mailto:becklin@astro.ucla.edu">becklin@astro.ucla.edu</a></td>
</tr>
<tr>
<td>Dr. Ben M. Zuckerman</td>
<td>University of California - Los Angeles</td>
<td><a href="mailto:ben@astro.ucla.edu">ben@astro.ucla.edu</a></td>
</tr>
<tr>
<td>Dr. Inseok Song</td>
<td>Gemini Observatory, Northern Operations</td>
<td><a href="mailto:song@gemini.edu">song@gemini.edu</a></td>
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VISITS

<table>
<thead>
<tr>
<th>Visit</th>
<th>Targets</th>
<th>Configurations</th>
<th>Orbits Used</th>
<th>Last Orbit Planner Run</th>
<th>OP Current with Visit?</th>
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<tbody>
<tr>
<td>01</td>
<td>(1) HD10472</td>
<td>NIC2</td>
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<td>22-Mar-2006 23:30:55.0</td>
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<td>05</td>
<td>(3) HD15115</td>
<td>NIC2</td>
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<td>22-Mar-2006 23:31:07.0</td>
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<td>NIC2</td>
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<td>22-Mar-2006 23:31:26.0</td>
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ABSTRACT
Images of circumstellar debris disks around young stars display complex structures that suggest they harbor forming planets. Disks around stars of nearly the same age and mass show dramatically different morphologies including rings with brightness asymmetries and multiple warps. The reasons for this heterogeneity are not understood, nor given the small sample of imaged disks, can we be sure we have yet observed all possible outcomes of the planet formation process. Disk imaging programs have demonstrated that the Hubble Space Telescope is the only excellent platform for the high-contrast detection of scattered light disks in the presence of their bright parent stars. Therefore, we propose a NICMOS imaging survey of the nearest, youngest, stars to Earth with substantial disks known from infrared excess emission.

OBSERVING DESCRIPTION
Integration Times: The NICMOS multiaccum naturally accomplishes a large dynamic range. We use STEP32, NSAMP up to 15 in order to be consistent with other programs and ease calibration.

PSF Subtraction: We proposed to make observations of each disk at two telescope orientations. This procedure distinguishes real disk structure from optical artifacts because the disk appears to rotate about the occulted star while the instrumental “features” stay fixed to the detector. For the present
Proposal 10540 - Overview

project, we propose a sequence of observations just like what the ACS GTO team is doing: observe the disk at one telescope orientation (1 orbit), PSF (1 orbit), disk at orientation 30 deg from the first (1 orbit); these are done in three sequential orbits to minimize telescope thermal changes.

Photometric Calibration: We propose to use a single acquisition filter, F190N, for both objects and PSFs. According to the ETC, our stars will not saturate in this filter in the minimum integration time. Since our PSFs are very close, if not identical, in spectral type to our objects, the flux ratios at F110W should be identical to those at F190N. This will minimize uncertainties in the final disk photometry.

PSF Selection: For each object, we have selected PSFs that are close on the sky, the same spectral type, are brighter, and are not known binaries.

ADDITIONAL COMMENTS
Plan windows: Because of the three back-to-back orbit sequencing requirements combined with the need for a 30 deg roll, our plan windows are very short. Please advise if any of them have scheduling problems.

Target coordinates taken from Hipparcos because all of the objects are too bright for good GSC positions.
**Proposal 10540 - Visit 01 - Imaging Nearby Dusty Disks**

**Visit 01**

**Proposal 10540, Visit 01**

**Diagnosis Status:** No Diagnostics

**Scientific Instruments:** NIC2

**Special Requirements:** ORIENT 28.9D TO 29.9D FROM 03; SEQ 01,02,03 WITHIN 2.5 ORBITS

**Comments:** 1st orientation of HD 10472

Group together with Visit 2 (PSF-HD7858) and Visit 3 (2nd orientation of HD 10472)

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### Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
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<tbody>
<tr>
<td>(1)</td>
<td>HD10472</td>
<td>RA: 01 40 23.9900 (25.0999583d) Dec: -60 59 56.50 (-60.99903d)</td>
<td>Proper Motion RA: 0.00847s/yr Proper Motion Dec: -0.01111&quot;/yr</td>
<td>V=7.62 +/- 0.01</td>
<td>Coordinate Source: HIPPARCOS/TYCHO_CATALOGUE</td>
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### Exposures

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<tbody>
<tr>
<td>1</td>
<td>HD 10472 A</td>
<td>(1) HD10472 cq at F190N</td>
<td>NIC2, ACQ, NIC2-ACQ</td>
<td>F190N</td>
<td>GS ACQ SCENARI O BASE1TNS</td>
<td>1.67 Secs</td>
<td>[==&gt;]</td>
<td>[I]</td>
<td></td>
</tr>
</tbody>
</table>

**Comments:** Should have ~74K e- in brightest pixel

| 2 | F110W mult | (1) HD10472 iccum | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=15; SAMP-SEQ=STEP3 2 | [==>({Copy 1})] [==>({Copy 2})] [==>({Copy 3})] [==>({Copy 4})] [==>({Copy 5})] [==>({Copy 6})] [==>({Copy 7})] [==>({Copy 8})] [==>({Copy 9})] [==>({Copy 10})] [==>({Copy 11})] |

**Comments:** total integration = 11 x 256s = 2816 s
Orbit Structure

- Exp. 1
- Exp. 2, copy 1
- Exp. 2, copy 2
- Exp. 2, copy 3
- Exp. 2, copy 4
- Exp. 2, copy 5
- Exp. 2, copy 6
- Exp. 2, copy 7
- Exp. 2, copy 8
- Exp. 2, copy 9
- Exp. 2, copy 10
- Exp. 2, copy 11

GS Acq

Unused Visibility = 82
Occultation

Server Version: 20051205
## Proposal 10540, Visit 02

### Imaging Nearby Dusty Disks

**Diagnostic Status:** No Diagnostics  
**Scientific Instruments:** NIC2  
**Special Requirements:** (none)

### Fixed Targets

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<th>Fluxes</th>
<th>Miscellaneous</th>
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<td>Proper Motion RA: 0.02277/yr</td>
<td>V=6.91 +/- 0.01</td>
<td>Coordinate Source: HIPPARCOS/TYCHO_CATALOGUE</td>
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<tr>
<td></td>
<td></td>
<td>Dec: -67 25 51.90 (-67.43108d)</td>
<td>Proper Motion Dec: 0.0244&quot;/yr</td>
<td>J=6.18</td>
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<td></td>
<td>Equinox: J2000</td>
<td>Parallax: 0.0168&quot;</td>
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<td>Plate Id: (?)</td>
<td>Epoch of Position: 1991.25</td>
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**Comments:** PSF for HD 10472

### Exposures

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<td>HD 7858 (P)</td>
<td>NIC2, ACQ, NIC2-ACQ</td>
<td>F190N</td>
<td>GS ACQ SCENARI O BASE1TNS</td>
<td>0.92 Secs</td>
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<td>SDJ 1788</td>
<td>NIC2-190N</td>
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**Comments:** Should get 73K e- in 0.92 s

| 2  | F110W multiacum | (2) HD7858 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=15; SAMP-SEQ=STEP3 | ![image] |       | ![image] |       |
|    |                 |           | NIC2-190N               |       |             | ![image] |       | ![image] |       |
|    |                 |           | NIC2-190N               |       |             | ![image] |       | ![image] |       |
|    |                 |           | NIC2-190N               |       |             | ![image] |       | ![image] |       |
|    |                 |           | NIC2-190N               |       |             | ![image] |       | ![image] |       |

| 3  | F110W multiacum | (2) HD7858 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=11; SAMP-SEQ=STEP3 | ![image] |       | ![image] |       |
|    |                 |           | NIC2-190N               |       |             | ![image] |       | ![image] |       |
|    |                 |           | NIC2-190N               |       |             | ![image] |       | ![image] |       |
|    |                 |           | NIC2-190N               |       |             | ![image] |       | ![image] |       |
|    |                 |           | NIC2-190N               |       |             | ![image] |       | ![image] |       |

**Comments:** Should get 73K e- in 0.92 s

---

**Notes:**
- HD7858
- Alt Name: HIP5943
- Plate Id: (?)
- Proper Motion RA: 0.02277/yr
- Proper Motion Dec: 0.0244"/yr
- Parallax: 0.0168"
- Epoch of Position: 1991.25
### Fixed Targets

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<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
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<td>(1)</td>
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<td>Plate Id: (?)</td>
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### Exposures

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<td>GS ACQ SCENARI O BASE1TNS</td>
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### Proposal 10540, Visit 05 - Imaging Nearby Dusty Disks

**Diagnostic Status:** No Diagnostics  
**Scientific Instruments:** NIC2  
**Special Requirements:** ORIENT 25.0D TO 30.0D FROM 07; SEQ 05,06,07 WITHIN 2.5 Orbits

#### Fixed Targets

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<td>V=6.79+/-0.01</td>
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<td>Dec: +06 17 33.60 (6.29267d)</td>
<td>Proper Motion Dec: -0.05013'/yr</td>
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#### Exposures

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<td>NIC2, ACQ, NIC2-ACQ</td>
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<td>GS ACQ SCENARI</td>
<td>O BASE1TNS</td>
<td>1.059 Secs</td>
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*Comments: Should get 75.5K e- in 0.801 s on H=5.9 F2  
21 Mar 2006 - Update Acq integration time with new ETC (error in QE fixed) - should get 74.5e- in 1.059 s*
### Proposal 10540, Visit 06 - Imaging Nearby Dusty Disks

**Visit**

- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** NIC2
- **Special Requirements:** (none)

### Fixed Targets

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<td>Coordinate Source: HIPPARCOS/ TYCHO_CATALOGUE</td>
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<td>Parallax: 0.02524&quot;</td>
<td>Plate Id: (?) Epoch of Position: 1991.25</td>
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Comments: PSF for HD 15115

### Exposures

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<td>(4) HD16647</td>
<td>NIC2, ACQ, NIC2-ACQ</td>
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<td></td>
<td></td>
<td></td>
<td>0.622 Secs</td>
<td>[I]</td>
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<td>PSF) Acq at</td>
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Comments: Should get 76K e- in 0.478s on H=5.3 F3

21 Mar 2006 - Update Acq integration time with new ETC (error in QE fixed) - should get 73.5e- in 0.622 s

| 2  | F110W mult   | (4) HD16647 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=15; SAMP-SEQ=STEP3 |              |              |                          |       |

Comments: Should get 76K e- in 0.478s on H=5.3 F3

21 Mar 2006 - Update Acq integration time with new ETC (error in QE fixed) - should get 73.5e- in 0.622 s
# Fixed Targets

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<td>HD15115</td>
<td>RA: 02 26 16.1900 (36.5674583d)</td>
<td>Proper Motion RA: 0.005777s/yr</td>
<td>V=6.79+/-0.01</td>
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<td>Alt Name1: HIP11360</td>
<td>Dec: +06 17 33.60 (6.29267d)</td>
<td>Proper Motion Dec: -0.05013&quot;/yr</td>
<td>J=6.03</td>
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<td></td>
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<td>Parallax: 0.02233&quot;</td>
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<tr>
<td>1</td>
<td>HD 15115 A</td>
<td>NIC2, ACQ, NIC2-ACQ</td>
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<td>GS ACQ SCENARI</td>
<td>O BASE1TNS</td>
<td>1.059 Secs</td>
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<td>cq at F190N</td>
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<td>Comments: Should get 75.5K e- in 0.801 s on H=5.9 F2</td>
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<td>21 Mar 2006 - Update Acq integration time with new ETC (error in QE fixed) - should get 74.5e- in 1.059 s</td>
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# Exposures

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## Proposal 10540, Visit 09 - Imaging Nearby Dusty Disks

### Visit
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** NIC2
- **Special Requirements:** ORIENT 28.0D TO 29.9D FROM 11; SEQ 09,10,11 WITHIN 2.5 Orbits

### Fixed Targets

| # | Name               | Target Coordinates                              | Targ. Coord. Corrections | Fluxes         | Miscellaneous
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<td>RA: 17 56 20.1700 (269.0840417d)</td>
<td>Proper Motion RA: -0.00756s/yr</td>
<td>V=7.72+/-0.01</td>
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<td>Equinox: J2000</td>
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### Exposures

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Proposal 10540 - Visit 10 - Imaging Nearby Dusty Disks

Visit

**Proposal 10540, Visit 10**  
Diagnostic Status: No Diagnostics  
Scientific Instruments: NIC2  
Special Requirements: (none)

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Proposal 10540 - Visit 10 - Imaging Nearby Dusty Disks

**Orbit 1**

- Exp. 1
- Exp. 2, copy 1
- Exp. 2, copy 2
- Exp. 2, copy 3
- Exp. 2, copy 4
- Exp. 2, copy 5
- Exp. 2, copy 6
- Exp. 2, copy 7
- Exp. 2, copy 8
- Exp. 2, copy 9
- Exp. 2, copy 10
- Exp. 2, copy 11

**GS Acq**

**Unused Visibility = 84**

**Occultation**

Server Version: 20051205
Proposal 10540, Visit 11 - Imaging Nearby Dusty Disks

Visit
Proposal 10540, Visit 11
Diagnostic Status: No Diagnostics
Scientific Instruments: NIC2
Special Requirements: (none)

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Exposures

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<td>GS ACQ SCENARI O BASE1TNS</td>
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Comments: Should get 75K e- in 1.138 s on H=6,27 K0

| 2 | F110W mult iaccum | (5) HD164330 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=15; SAMP-SEQ=STEP3 2 |                      | [==>(Copy 1)] | [I] |
|   |        |        |                      |               |             |              |        |                        |       |
### Proposal 10540, Visit 13 - Imaging Nearby Dusty Disks

#### Diagnostic Status: No Diagnostics

**Scientific Instruments:** NIC2

**Special Requirements:** ORIENT 26.9D TO 29.9D FROM 15; SEQ 13,14,15 WITHIN 2.5 Orbits

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<td>HD170773</td>
<td>RA: 18 33 0.8500 (278.2535417d)</td>
<td>Proper Motion RA: 0.0075s/yr</td>
<td>V=6.22+/-0.01</td>
<td>Coordinate Source: HIPPARCOS/TYCHO_CATALOGUE</td>
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<td>Dec: -39 53 30.60 (-39.89183d)</td>
<td>Proper Motion Dec.: -0.08029&quot;/yr</td>
<td>J=5.42</td>
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<td>Equinox: J2000</td>
<td>Parallax: 0.02772&quot;</td>
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Proposal 10540 - Visit 13 - Imaging Nearby Dusty Disks
## Proposal 10540, Visit 14 - Imaging Nearby Dusty Disks

### Diagnostic Status: No Diagnostics

**Scientific Instruments:** NIC2  
**Special Requirements:** (none)

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### Fixed Targets

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<td>RA: 20 19 17.6800 (304.8236667d)</td>
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**Comments:** PSF for HD 170773

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<td>0.529 Secs</td>
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**Comments:** Should get 74K e− in 0.385 s on H=5.103 F5  
21 Mar 2006 - update Acq integration time based on new ETC (fixed QE) - should get 75K e− in 0.529 s

| 2 | F110W mult  | (8) HD192886 | NIC2, MULTIACCUM, NIC2-CORON | F110W         | NSAMP=15; SAMP-SEQ=STEP3 2 |             |                    | [1]   |

| 3 | F110W mult  | (8) HD192886 | NIC2, MULTIACCUM, NIC2-CORON | F110W         | NSAMP=11; SAMP-SEQ=STEP3 2 |             |                    | [1]   |
**Proposal 10540, Visit 15 - Imaging Nearby Dusty Disks**

**Visit**
- **Proposal 10540, Visit 15**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** NIC2
- **Special Requirements:** (none)

**Fixed Targets**

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<td>RA: 18 33 0.8500 (278.2535417d)</td>
<td>Proper Motion RA: 0.0075s/yr</td>
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<td>0.622 Secs</td>
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<td>F190N</td>
<td>GS ACQ SCENARI O BASE1TNS</td>
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**Comments:** Should get 76K e- in 1.324 s on H=6.396 F5 21 Mar 2006 - Update Acq integration time with new ETC (error in QE fixed) - should get 72e- in 1.668 s

**Comments:** total integration = 11 x 256s = 2816 s
# Proposal 10540 - Visit 18 - Imaging Nearby Dusty Disks

**Visit 10540, Visit 18**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** NIC2

**Special Requirements:** (none)

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<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
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<td>Dec: -87 01 29.90 (-87.02497d)</td>
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**Fixed Targets**

*Comments: PSF 3.0 deg from HD 53842*

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*Comments: Should get 76K e- in 0.55 s on J=5.625 F3
21 Mar 2006 - Update Acq integration time with new ETC (error in QE fixed) - should get 76K e- in 0.717 s*

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**Fixed Targets**

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<th>Miscellaneous</th>
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<td>HD53842</td>
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<td>V=7.46 +/- 0.01 J=6.553</td>
<td>Coordinate Source: HIPPARCOS/TYCHO_CATALOGUE</td>
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**Exposures**

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Comments: Should get 76K e- in 1.324 s on H=6.396 F5
21 Mar 2006 - Update Acq integration time with new ETC (error in QE fixed) - should get 72e- in 1.668 s

| 2  | F110W mult | (9) HD53842 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=15; SAMP-SEQ=STEP3 | | 11 x 256s = 2816 s |
|    | iaccum | | | | 2 | [===>] |
|    | | | | | | | [===>] (Copy 3) |
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|    | | | | | | | [===>] (Copy 9) |
|    | | | | | | | [===>] (Copy 10) |
|    | | | | | | | [===>] (Copy 11) |

Comments: Total integration = 11 x 256s = 2816 s

| 3  | F110W mult | (9) HD53842 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=12; SAMP-SEQ=STEP3 | | |
|    | iaccum | | | | 2 | [===>] |
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|    | | | | | | | [===>] |