



10810 - The Gas Dissipation Timescale: Constraining Models of Planet Formation

Cycle: 15, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) HD-98800	ACS/SBC	1	19-Sep-2006 21:34:14.0	yes
02	(2) TWA-7	ACS/SBC	1	19-Sep-2006 21:34:18.0	yes
03	(3) TWA-13A	ACS/SBC	1	19-Sep-2006 21:34:21.0	yes
04	(4) HD-61005	ACS/SBC	1	19-Sep-2006 21:34:24.0	yes
05	(5) MML-36	ACS/SBC	1	19-Sep-2006 21:34:26.0	yes
07	(7) MML-28	ACS/SBC	1	19-Sep-2006 21:34:29.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
08	(8) HD-12039	ACS/SBC	1	19-Sep-2006 21:34:32.0	yes
09	(9) HD-92945	ACS/SBC	1	19-Sep-2006 21:34:34.0	yes
10	(10) HD-202917	ACS/SBC	1	19-Sep-2006 21:34:37.0	yes
11	(11) HD53143	ACS/SBC	1	19-Sep-2006 21:34:40.0	yes

10 Total Orbits Used

ABSTRACT

We propose to constrain planet-formation models by searching for molecular hydrogen emission around young (10-50 Myr) solar-type stars that have evidence for evolved dust disks. Planet formation models show that the presence of gas in disks is crucial to the formation of BOTH giant and terrestrial planets, influences dust dynamics, and through tidal interactions with giant planets leads to orbital migration. However, there is a lack of systematic information on the presence and lifetime of gas residing at planet-forming radii.

We will use a newly identified broad continuum emission feature of molecular hydrogen at 1600 Angstrom to search for residual gas within an orbital radius of 5-10 AU around young stars that have evolved beyond the optically thick T Tauri phase. These observations will enable the most sensitive probe to date of remnant gas in circumstellar disks, detecting surface densities of $\sim 0.0001 \text{ g/cm}^2$, or less than 10^{-5} of the theoretical "minimum mass" solar nebula from which our solar system is thought to have formed. Our observations are designed to be synergistic with ongoing searches for gas emission that is being performed using the Spitzer Space Telescope in that the proposed HST observations are ~ 100 times more sensitive and will have 50 times higher angular resolution. These combined studies will provide the most comprehensive view of residual gas in proto-planetary disks and can set important constraints on models of planet formation.

OBSERVING DESCRIPTION

A ACS prism observation is being made of 10 young stellar objects to search for an emission feature at 1600 angstrom. The spectral element is the PR130L being used with the SBC on the ACS. A single observation of an orbit in length are scheduled for each target. A pair of short observations

is also scheduled, as these are needed for wavelength calibration. The pair of short images are being taken with the F125LP/F140LP/F150LP filters on the SBC/ACS, as this is the closest match in spectral properties to the PR130L and the source emission.

Proposal 10810 - Visit 01 - The Gas Dissipation Timescale: Constraining Models of Planet Formation

Wed Sep 20 01:34:42 GMT 2006

Visit	Proposal 10810, Visit 01, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)																																							
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HD-98800</td> <td>RA: 11 22 5.2898 (170.5220408d) Dec: -24 46 39.76 (-24.77771d) Equinox: J2000</td> <td></td> <td>V=9.11</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-98800	RA: 11 22 5.2898 (170.5220408d) Dec: -24 46 39.76 (-24.77771d) Equinox: J2000		V=9.11	Reference Frame: ICRS																		
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Orbit Structure	<div style="text-align: right;">Server Version: 20060619</div> <p>Orbit 1</p> <p>Timeline (seconds): 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 sec</p> <p>Events:</p> <ul style="list-style-type: none"> GS Acq: 0s Exp. 1, copy 1: ~300s Exp. 1, copy 2: ~400s Pointing Maneuver: ~500s Exp. 2, copy 1: ~600s Exp. 2, copy 2: ~1900s Occultation: ~3100s Unused Visibility = 1: ~3100s to 5500s 																																							

Proposal 10810 - Visit 02 - The Gas Dissipation Timescale: Constraining Models of Planet Formation

Wed Sep 20 01:34:43 GMT 2006

Visit	Proposal 10810, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	TWA-7	RA: 10 42 30.1100 (160.6254583d) Dec: -33 40 16.20 (-33.67117d) Equinox: J2000		V=11.06	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	TWA-7-F16 5LP	(2) TWA-7	ACS/SBC, ACCUM, SBC	F165LP				360.0 Secs X 2	
									[==>45.0 Secs (Copy 1)]	[1]
									[==>45.0 Secs (Copy 2)]	
2	TWA-7-PR1 30L	(2) TWA-7	ACS/SBC, ACCUM, SBC	PR130L				1800.0 Secs X 2		
								[==>1228.0 Secs (Copy 1)]	[1]	
								[==>1228.0 Secs (Copy 2)]		
Orbit Structure	<p>Orbit 1 Server Version: 20060619</p> <p>GS Acq</p> <p>Pointing Maneuver</p> <p>Exp. 1, copy 1</p> <p>Exp. 1, copy 2</p> <p>Exp. 2, copy 1</p> <p>Exp. 2, copy 2</p> <p>Occultation</p> <p>Unused Visibility = 0</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec</p>									

Proposal 10810 - Visit 03 - The Gas Dissipation Timescale: Constraining Models of Planet Formation

Wed Sep 20 01:34:43 GMT 2006

Visit	Proposal 10810, Visit 03, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	TWA-13A	RA: 11 21 17.2400 (170.3218333d) Dec: -34 46 45.50 (-34.77931d) Equinox: J2000		V=10.93	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	TWA-13A-F165LP	(3) TWA-13A	ACS/SBC, ACCUM, SBC	F165LP				360.0 Secs X 2	
									[=>45.0 Secs (Copy 1)] [=>45.0 Secs (Copy 2)]	[1]
	2	TWA-13A-PR130L	(3) TWA-13A	ACS/SBC, ACCUM, SBC	PR130L				1800.0 Secs X 2	
								[=>1228.0 Secs (Copy 1)] [=>1228.0 Secs (Copy 2)]	[1]	
Orbit Structure	<p>Orbit 1 Server Version: 20060619</p> <p>GS Acq</p> <p>Pointing Maneuver</p> <p>Exp. 1, copy 1</p> <p>Exp. 1, copy 2</p> <p>Exp. 2, copy 1</p> <p>Exp. 2, copy 2</p> <p>Occultation</p> <p>Unused Visibility = 0</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec</p>									

Proposal 10810 - Visit 04 - The Gas Dissipation Timescale: Constraining Models of Planet Formation

Wed Sep 20 01:34:44 GMT 2006

Visit	Proposal 10810, Visit 04, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	HD-61005	RA: 07 35 47.4617 (113.9477571d) Dec: -32 12 14.04 (-32.20390d) Equinox: J2000		V=8.22	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	HD61005-F 125LP	(4) HD-61005	ACS/SBC, ACCUM, SBC	F122M				360.0 Secs X 2	
									[==>45.0 Secs (Copy 1)] [==>45.0 Secs (Copy 2)]	[1]
	2	HD61005-P R130L	(4) HD-61005	ACS/SBC, ACCUM, SBC	PR130L				1800.0 Secs X 2	
								[==>1230.0 Secs (Copy 1)] [==>1230.0 Secs (Copy 2)]	[1]	
Orbit Structure	<p>Orbit 1 Server Version: 20060619</p>									
	<p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with arrows and labels: 'GS Acq' at 0s, 'Exp. 1, copy 1' at ~400s, 'Exp. 1, copy 2' at ~450s, 'Pointing Maneuver' at ~500s, 'Exp. 2, copy 1' at ~600s, 'Exp. 2, copy 2' at ~1900s, 'Occultation' at ~3100s, and 'Unused Visibility = 1' from ~3100s to 5500s. A blue hatched bar represents the active observation period from ~400s to ~3100s. Green boxes with double arrows indicate the exposure times for each copy of the two exposures.</p>									

Proposal 10810 - Visit 05 - The Gas Dissipation Timescale: Constraining Models of Planet Formation

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Visit	Proposal 10810, Visit 05, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	MML-36	RA: 13 37 57.2960 (204.4887333d) Dec: -41 34 41.83 (-41.57829d) Equinox: J2000		V=10.03	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	MML36-F1 22M	(5) MML-36	ACS/SBC, ACCUM, SBC	F122M				360.0 Secs X 2	
									[=>75.0 Secs (Copy 1)] [=>75.0 Secs (Copy 2)]	[1]
	2	MML36-PR 130L	(5) MML-36	ACS/SBC, ACCUM, SBC	PR130L				1800.0 Secs X 2	
								[=>1209.0 Secs (Copy 1)] [=>1209.0 Secs (Copy 2)]	[1]	
Orbit Structure	<p>Orbit 1 Server Version: 20060619</p> <p>GS Acq</p> <p>Exp. 1, copy 1</p> <p>Exp. 1, copy 2</p> <p>Pointing Maneuver</p> <p>Exp. 2, copy 1</p> <p>Exp. 2, copy 2</p> <p>Unused Visibility = 0</p> <p>Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec</p>									

Proposal 10810 - Visit 07 - The Gas Dissipation Timescale: Constraining Models of Planet Formation

Wed Sep 20 01:34:45 GMT 2006

Visit	Proposal 10810, Visit 07, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)									
Fixed Targets	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous									
	(7) MML-28 RA: 13 01 50.6940 (195.4612250d) Dec: -53 04 58.22 (-53.08284d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	# Label Target Config,Mode,Aperture Spectral Els. Opt. Params. Special Reqs. Groups Exp. Time/[Actual Dur.] Orbit									
	1	MML28-F1 65LP	(7) MML-28	ACS/SBC, ACCUM, SBC	F165LP				360.0 Secs X 2 [=>64.0 Secs (Copy 1)] [=>64.0 Secs (Copy 2)]	[1]
	2	MML28-PR 130L	(7) MML-28	ACS/SBC, ACCUM, SBC	PR130L				1800.0 Secs X 2 [=>1233.0 Secs (Copy 1)] [=>1233.0 Secs (Copy 2)]	[1]
Orbit Structure	<p>Orbit 1 Server Version: 20060619</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. A blue checkered bar represents the observation period, starting at approximately 300 seconds and ending at 3200 seconds. Key events are marked with arrows and labels: 'GS Acq' at 0s, 'Exp. 1, copy 1' at ~300s, 'Exp. 1, copy 2' at ~400s, 'Pointing Maneuver' at ~500s, 'Exp. 2, copy 1' at ~600s, 'Exp. 2, copy 2' at ~1900s, 'Occultation' at ~3200s, and 'Unused Visibility = 0' from ~3200s to 5500s. Green boxes with double arrows highlight the exposure times.</p>									

Proposal 10810 - Visit 08 - The Gas Dissipation Timescale: Constraining Models of Planet Formation

Wed Sep 20 01:34:46 GMT 2006

Visit	Proposal 10810, Visit 08, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	HD-12039	RA: 01 57 48.9777 (29.4540738d) Dec: -21 54 5.35 (-21.90149d) Equinox: J2000		V=8.11	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	HD12039-F 165LP	(8) HD-12039	ACS/SBC, ACCUM, SBC	F122M				360.0 Secs X 2	
									[=>53.0 Secs (Copy 1)]	[1]
									[=>53.0 Secs (Copy 2)]	
2	HD12039-P R130L	(8) HD-12039	ACS/SBC, ACCUM, SBC	PR130L					1800.0 Secs X 2	
									[=>1220.0 Secs (Copy 1)]	[1]
									[=>1220.0 Secs (Copy 2)]	
Orbit Structure	<p>Orbit 1 Server Version: 20060619</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. A blue hatched bar represents the observation period, starting at approximately 400 seconds and ending at 3100 seconds. Key events are marked with arrows and labels: 'GS Acq' at ~200s, 'Pointing Maneuver' at ~400s, 'Exp. 1, copy 1' at ~450s, 'Exp. 1, copy 2' at ~500s, 'Exp. 2, copy 1' at ~600s, 'Exp. 2, copy 2' at ~1900s, 'Occultation' at ~3100s, and 'Unused Visibility = 0' from ~3100s to ~5500s. Green boxes with camera icons highlight the exposure events.</p>									

Proposal 10810 - Visit 09 - The Gas Dissipation Timescale: Constraining Models of Planet Formation

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Orbit Structure	<p>Orbit 1 Server Version: 20060619</p>																																		

Proposal 10810 - Visit 10 - The Gas Dissipation Timescale: Constraining Models of Planet Formation

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#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																			
(10)	HD-202917	RA: 21 20 49.9563 (320.2081512d) Dec: -53 02 3.14 (-53.03421d) Equinox: J2000		V=8.67	Reference Frame: ICRS																																			
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HD202917-F165LP</td> <td>(10) HD-202917</td> <td>ACS/SBC, ACCUM, SBC</td> <td>F165LP</td> <td></td> <td></td> <td></td> <td>360.0 Secs X 2 [=>45.0 Secs (Copy 1)] [=>45.0 Secs (Copy 2)]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>HD202917-PR130L</td> <td>(10) HD-202917</td> <td>ACS/SBC, ACCUM, SBC</td> <td>PR130L</td> <td></td> <td></td> <td></td> <td>1800.0 Secs X 2 [=>1252.0 Secs (Copy 1)] [=>1252.0 Secs (Copy 2)]</td> <td>[1]</td> </tr> </tbody> </table>										#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	HD202917-F165LP	(10) HD-202917	ACS/SBC, ACCUM, SBC	F165LP				360.0 Secs X 2 [=>45.0 Secs (Copy 1)] [=>45.0 Secs (Copy 2)]	[1]	2	HD202917-PR130L	(10) HD-202917	ACS/SBC, ACCUM, SBC	PR130L				1800.0 Secs X 2 [=>1252.0 Secs (Copy 1)] [=>1252.0 Secs (Copy 2)]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																															
1	HD202917-F165LP	(10) HD-202917	ACS/SBC, ACCUM, SBC	F165LP				360.0 Secs X 2 [=>45.0 Secs (Copy 1)] [=>45.0 Secs (Copy 2)]	[1]																															
2	HD202917-PR130L	(10) HD-202917	ACS/SBC, ACCUM, SBC	PR130L				1800.0 Secs X 2 [=>1252.0 Secs (Copy 1)] [=>1252.0 Secs (Copy 2)]	[1]																															
Orbit Structure	<div style="text-align: right;">Server Version: 20060619</div> <p>Orbit 1</p> <p>Timeline (seconds):</p> <ul style="list-style-type: none"> 0: Start of orbit ~200: GS Acq ~400: Pointing Maneuver ~450: Exp. 1, copy 1 ~500: Exp. 1, copy 2 ~600: Exp. 2, copy 1 ~1900: Exp. 2, copy 2 ~3200: Occultation ~3200 - 5500: Unused Visibility = 0 																																							

Proposal 10810 - Visit 11 - The Gas Dissipation Timescale: Constraining Models of Planet Formation

Wed Sep 20 01:34:47 GMT 2006

Visit	Proposal 10810, Visit 11, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
(11)		HD53143 Alt Name1: NLTT17321 Alt Name2: GJ260	RA: 06 59 59.6500 (104.9985417d) Dec: -61 20 10.26 (-61.33618d) Equinox: J2000		V=6.8	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	HD53143-F 150LP	(11) HD53143	ACS/SBC, ACCUM, SBC	F122M				360.0 Secs X 2 [=>81.0 Secs (Copy 1)] [=>81.0 Secs (Copy 2)]	[1]
	2	HD53143-P R130L	(11) HD53143	ACS/SBC, ACCUM, SBC	PR130L				1800.0 Secs X 2 [=>1240.0 Secs (Copy 1)] [=>1240.0 Secs (Copy 2)]	[1]
Orbit Structure	Orbit 1 Server Version: 20060619									