

COS-GTO: Accretion Flows and Winds of Pre-Main Sequence Stars

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Scientific Category: STAR FORMATION

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YOUNG STARS AND PROTOSTELLAR OBJECTS, ACCRETION DISKS

Abstract

COS will obtain spectra of T Tauri stars to study accretion flows and wind absorption features in ultraviolet emission lines. Observations of several T Tauri stars with different inclination angles with respect to the line of sight will determine the temperature distributions, flow velocities, and column densities of both inflows and outflows for these stars.

Investigators:

	Investigator	Institution	Country
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Number of investigators: 2

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Target Summary:

Target	RA	Dec	Magnitude
V4046SGR	18 14 10.5000	-32 47 33.58	V = 11.4 +/- 0.3
V-DF-TAU	04 27 2.7953	+25 42 22.33	V = 11.0 +/- 0.3
V-BP-TAU	04 19 15.8317	+29 06 26.86	V = 12.32 +/- 0.3
V-GG-TAU	04 32 30.3300	+17 31 40.70	V = 12.34 +/- 0.3

Observing Summary:

Target	Config Mode and Spectral Elements	Flags	Orbits
V4046SGR	COS/FUV Spectroscopic G130M		4
	COS/FUV Spectroscopic G160M		
V-DF-TAU	COS/FUV Spectroscopic G130M		4
	COS/FUV Spectroscopic G160M		
V-BP-TAU	COS/FUV Spectroscopic G130M		4
	COS/FUV Spectroscopic G160M		
V-GG-TAU	COS/FUV Spectroscopic G130M		4
	COS/FUV Spectroscopic G160M		

Total prime orbits: 16

This is a COS GTO project, no scientific justification is needed.