

COS-GTO: Activity of Solar Mass Stars from Cradle to Grave

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Scientific Category: COOL STARS

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Abstract

COS spectra will be very useful for answering the question of how chromospheric and coronal activity of stars decline as stars lose angular momentum and magnetic fields with age. This question is important for modelling the atmospheres of young planets that are blasted by strong ultraviolet radiation and winds from young stars. COS will obtain spectra of solar mass stars with a range of ages from 10 Myr to 7 Gyr.

Investigators:

	Investigator	Institution	Country
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Number of investigators: 2

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Target Summary:

Target	RA	Dec	Magnitude
HII314	03 44 20.0920	+24 47 46.26	V = 10.4
HD-28344	04 28 48.2964	+17 17 7.67	V = 7.85
GS-935001624	00 25 45.0900	-77 15 15.30	V = 2.75

Observing Summary:

Target	Config Mode and Spectral Elements	Flags	Orbits
HII314	COS/FUV Spectroscopic G130M		2
HD-28344	COS/FUV Spectroscopic G130M		2
GS-935001624	COS/FUV Spectroscopic G130M		1

Total prime orbits: 5

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