

COS-GTO: Sampling the Interstellar Gas Between the Milky Way and Triangulum Galaxies

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Scientific Category: ISM AND CIRCUMSTELLAR MATTER

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Abstract

By making interstellar absorption measurements towards the star UIT-236 located within the M33 (Triangulum) galaxy we shall be able to sample gas associated with the inner and outer halo of the Milky Way, the intergalactic medium and gas in the M33 galaxy itself. Such sight-line measurements will enable a direct determination of the velocity structure and the chemical and physical nature of both neutral and ionized gas associated with, and located between, two spiral galaxies belonging to the Local Group.

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Investigators:

	Investigator	Institution	Country
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Number of investigators: 2

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Target Summary:

Target	RA	Dec	Magnitude
M33-UIT-236	01 33 53.6000	+30 38 51.80	V = 18.1 +/- 1.0, F(1300) = 6.00E-15

Observing Summary:

Target	Config Mode and Spectral Elements	Flags	Orbits
M33-UIT-236	COS/FUV Spectroscopic G130M		6 (3x2)

Total prime orbits: 6

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