

COS-GTO: STAR FORMATION/LYMAN-ALPHA

Principal Investigator: Dr. James C. Green

Institution: University of Colorado at Boulder

Electronic Mail: jgreen@origins.colorado.edu

Scientific Category: ISM IN EXTERNAL GALAXIES

Scientific Keywords: STAR FORMATION, STARBURST GALAXIES, GALAXY MORPHOLOGY AND
STRUCTURE, GALAXY FORMATION AND EVOLUTION

Abstract

A sample of 20 star-forming galaxies will be observed with COS G130M. The galaxies were selected from the Kitt Peak International Spectroscopic Survey (KISSR) data release and cover a broad range of luminosity, oxygen abundance, and reddening. The goal of the program is to characterize the Lyman-alpha properties and establish correlations with fundamental galaxy properties. Each galaxy will be observed for one orbit.

Investigators:

	Investigator	Institution	Country
PI	Dr. James C. Green	University of Colorado at Boulder	USA/CO
CoI#&	Dr. Cynthia Froning	University of Colorado at Boulder	USA/CO

Number of investigators: 2

Admin CoI: Dr. Cynthia Froning

& Contact CoI: Dr. Cynthia Froning

Target Summary:

Target	RA	Dec	Magnitude
KISSR218	13 09 16.1390	+29 22 2.61	V = 15.7 +/- 0.3, F(1500) = 4.70E-15
KISSR242	13 16 3.9000	+29 22 53.80	V = 16.0 +/- 0.5, F(1500) = 5.60E-15
KISSR1567	13 24 54.6000	+43 47 56.00	V = 14.8 +/- 0.5, F(1500) = 3.40E-15
KISSR326	13 39 16.1000	+28 52 25.00	V = 16.0 +/- 0.5, F(1500) = 2.60E-15
KISSR1637	13 42 0.0048	+42 45 36.15	V = 15.1 +/- 0.2, F(1500) = 3.10E-15
KISSR2021	15 45 52.7800	+44 15 47.60	V = 16.4 +/- 0.5, F(1500) = 2.40E-15
KISSR1084	16 49 5.2600	+29 45 31.60	V = 15.3 +/- 0.4, F(1500) = 2.20E-15
KISSR40	12 22 23.6000	+29 26 37.80	V = 16.81 +/- 0.2, F(1500) = 1.30E-15
KISSR108	12 43 55.3000	+29 22 10.70	V = 17.18 +/- 0.2, F(1500) = 1.30E-15
KISSR178	13 01 41.5340	+29 22 52.24	V = 16.65 +/- 0.2, F(1500) = 1.80E-15
KISSR182	13 02 25.6500	+28 51 29.10	V = 16.75 +/- 0.2, F(1500) = 1.90E-15
KISSR271	13 21 40.8000	+28 52 59.10	V = 16.78 +/- 0.2, F(1500) = 1.20E-15
KISSR1578	13 28 44.0500	+43 55 50.50	V = 16.3 +/- 0.2, F(1500) = 1.10E-14
KISSR298	13 29 49.7900	+29 34 47.00	V = 16.27 +/- 0.2, F(1500) = 2.20E-15
KISSR1785	14 26 28.8700	+43 28 15.00	V = 17.9 +/- 0.2, F(1500) = 1.20E-15
KISSR1942	15 22 48.4800	+43 46 24.50	V = 17.7 +/- 0.2, F(1500) = 2.00E-15
KISSR2019	15 45 44.5300	+44 15 51.80	V = 17.5 +/- 0.2, F(1500) = 1.20E-15
KISSR2023	15 46 42.5900	+43 14 37.20	V = 16.3 +/- 0.2, F(1500) = 2.00E-15
KISSR2110	16 08 11.1000	+43 37 54.30	V = 18.4 +/- 0.2, F(1500) = 1.60E-15
KISSR2125	16 10 20.4200	+43 00 35.10	V = 16.2 +/- 0.2, F(1500) = 1.50E-15

Observing Summary:

Target	Config Mode and Spectral Elements	Flags	Orbits
KISSR218	COS/FUV Spectroscopic G130M		1
KISSR242	COS/FUV Spectroscopic G130M		1
KISSR1567	COS/FUV Spectroscopic G130M		1
KISSR326	COS/FUV Spectroscopic G130M		1
KISSR1637	COS/FUV Spectroscopic G130M		1
KISSR2021	COS/FUV Spectroscopic G130M		1
KISSR1084	COS/FUV Spectroscopic G130M		1
KISSR40	COS/FUV Spectroscopic G130M		1
KISSR108	COS/FUV Spectroscopic G130M		1
KISSR178	COS/FUV Spectroscopic G130M		1
KISSR182	COS/FUV Spectroscopic G130M		1
KISSR271	COS/FUV Spectroscopic G130M		1
KISSR1578	COS/FUV Spectroscopic G130M		1
KISSR298	COS/FUV Spectroscopic G130M		1
KISSR1785	COS/FUV Spectroscopic G130M		1
KISSR1942	COS/FUV Spectroscopic G130M		1
KISSR2019	COS/FUV Spectroscopic G130M		1
KISSR2023	COS/FUV Spectroscopic G130M		1
KISSR2110	COS/FUV Spectroscopic G130M		1
KISSR2125	COS/FUV Spectroscopic G130M		1

Total prime orbits: 20

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