



# PHYSICS COLLOQUIUM: The SAGA Survey: Exploring Satellite Galaxies Around Milky Way Analogs

**Marla Geha**

Professor, Astronomy Department  
Yale University

**Date:**

2/19/2021

**Time:**

10:30 AM-11:50 AM

**Link:**

Please contact  
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for the Zoom link and  
passcode.

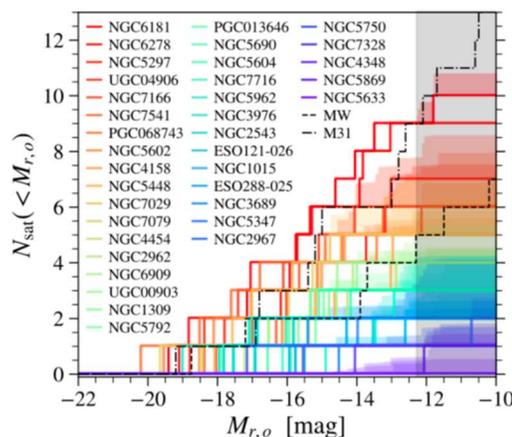
**About The Speaker:**

Marla Geha is a professor and astrophysicist at Yale University. She obtained her B.S. in Applied and Engineering Physics from Cornell University and her PhD in Astrophysics from University of California Santa Cruz in 2003. Geha utilizes the world's largest telescopes to study the smallest galaxies in the Universe. She has received various honors including an Alfred P. Sloan Research Fellow, and a John S. Guggenheim Fellowship and is currently and HHMI Fellow. She is in the board of the Warrior Scholar Project and runs the REVU summer research program.



**Abstract:**

The SAGA Survey will spectroscopically identify satellite galaxies brighter than  $M_r = -12.3$  around one hundred Milky Way analogs at  $z \sim 0.01$ . Our Stage II data release includes 127 satellites around 36 hosts. The data quadruple the sample size presented in 2017 and significantly increases spectroscopic coverage for very low-redshift galaxies with magnitudes  $17 < r < 21$  around SAGA hosts. This is a unique data set that places the Local Group in a wider context. I will discuss results on the quenched fraction of satellites, luminosity functions, radial distributions and more, comparing these both to the Milky Way itself and predictions from simulation.



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