



Department of Physics and Astronomy
FALL 2021 Colloquium Series - Virtual

“BESPOKE Galaxy Samples: A Tailor-made Approach to Galaxy Simulations”

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Feedback from massive stars shapes the ISM and galaxy evolution and yet the nature of star formation in the galactic context holds many as yet unsolved questions. With a growing compendium of high fidelity data from surveys with instruments like ALMA, HST and optical IFUS, we have an unprecedented view of dense gas, star clusters and star formation in galaxies spanning the star-forming main sequence. To contextualize these observational studies, there is a deep need for comparable theoretical work and, specifically, commensurate samples of simulated galaxies. I will discuss results from the BESPOKE (Better Extragalactic Simulation Physics on Known Examples) project. BESPOKE is creating an expanding survey of simulated galaxies that structurally match galaxies in the THINGS and PHANGS survey samples. The BESPOKE galaxies provide us with an unprecedented opportunity: to study the interplay between the ISM and stellar feedback across multiple scales and environments in simulated galaxies with the ability to truly benchmark against matched galaxy observations. I will present intriguing first results on this exciting new front.

Thursday, Oct. 14, 2021
4:00 - 5:20PM

Talk will be via Zoom - contact physics@csus.edu for links or visit our Colloquium Spotlight at www.csus.edu/physics

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