

SAIP2014



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How does the Cosmic Web Shape Galaxy Formation?

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Abstract :

Galaxy formation is at the same time both remarkably simple and remarkably complicated! Although the key physical processes responsible for shaping galaxies are not worked out in detail, they do however follow well-defined scaling relations. Recent work has shown that, in order to predict a galaxy's key properties, it is apparently sufficient to know only its stellar mass and the environment in which it resides. However, such approaches may "smooth over" key details, such as the galaxy's place in the vast web of cosmic structure. I will present early work from a study of a statistical sample of galaxies in the nearby Universe to examine how this larger structure affects a galaxy's key observables, such as star formation rate and gas content.

Award :

no

Level :

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Paper :

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Primary authors : Dr. GILBANK, David (South African Astronomical Observatory)

Co-authors :

Presenter : Dr. GILBANK, David (South African Astronomical Observatory)

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