

Cosmic Cartography 2022: Exploring the Cosmic Web and Large-Scale Structure



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Why does the cosmic web matter for low redshift galactic morphology?

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Why do thin galactic discs survive in the concordance model? This question has long been set aside as an obvious consequence of angular momentum conservation. The true answer is more subtle and enlightening for astronomy and theoretical physics. It must involve capturing gravity-driven processes operating on multiple scales, working to spontaneously set up a remarkably robust level of self-regulation, inherited from the cosmic web.

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