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Measuring Galaxy Assembly Bias in IllustrisTNG

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The bias (b) is a parameter that relates the clustering of a set of objects with the clustering of underlying dark Matter. It has been found that b depends on various galaxy properties, this phenomenon is usually known as Galaxy Assembly Bias. In general, b depends on how the galaxies have formed. We quantify the galaxy assembly bias of simulated galaxies at $z = 0$ with stellar masses $M_* > 10^9 M_\odot h^{-1}$ from the cosmological magnetohydrodynamic simulation IllustrisTNG. We obtain the clustering-age relation, cuts in the (g-i) colors, and the specific Star Formation Rate of central and satellite galaxies separately.

Primary authors: CAMARGO CAMARGO, Yeimy Dallana (Universidad Nacional de Colombia); Dr FORERO ROMERO, Jaime E. (Universidad de los Andes)

Presenter: CAMARGO CAMARGO, Yeimy Dallana (Universidad Nacional de Colombia)

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