## CoCo 2o2o: Cosmology in Colombia



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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  $M_{\star} > 10^9 M_{\odot} h^{-1}$  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.

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