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**The formation and evolution of Milky way size galaxy in illustrisTNG** YUAN WANG, Nankai University, DANDAN XU, Tsinghua university, MARK VOGELSBERGER, HUI LI, Massachusetts Institute of Technology, YUNCHONG WANG, Stanford university — The formation and evolution of galaxies is a very important field to help us understand the structure of galaxies and predict the future of the universe. In this poster, we use the IllustrisTNG Simulations to check the evolution of Milky-Way-size (MKW) galaxies. We trace the morphology parameters of the MKW galaxies at  $z=0$  and compare these parameters with other properties. The results show that the diversity of the MKW galaxies today have a strong correlation with the accretion history and spin parameters of their progenitors.

Yuan Wang  
Nankai University

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