## General Astronomy W2

fat

## February 26, 2024

TNG100-1 running a large universe simulation with a single CPU wastes 18000000 hours! Using a 8 core laptop, spends 300 years! Using about 10000 CPUs, spends about 3 months. Zuvio: Measure the spectrum to identify objects. left 1000000 kpc, right, 1kpc, left blackhole radiation