

JOINT TUFTS/MIT COSMOLOGY SEMINAR

Multiverse Predictions for Habitability

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In the multiverse framework, the probability of living in our universe depends strongly on the factors affecting habitability. Here, I evaluate the compatibility of the multiverse with multiple aspects of habitability, ranging from elemental abundances, planetary system architecture, stellar activity, and origin of life scenarios. This analysis leads to several predictions for which habitability criteria are correct, by determining which ones make our observations most likely. If any of these predictions are found to be wrong, the multiverse scenario can be ruled out, many times to a high degree of statistical significance.

Tuesday, May 2, 2023, 2:30 pm
574 Boston Ave, Room 206
Tufts University
Refreshments at 2:00 outside room 304