52nd IAA SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE (SETI) – The Next Steps (A4)
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EXPLORING THE UNIVERSE DEVELOPING ADVANCED SETI SIMULATIONS FOR THE NEXT STEPS IN THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE

Abstract

The search for extraterrestrial intelligence (SETI) has captured the imagination of scientists and the public alike for decades. With the growing availability of data and technological advancements, we now have the opportunity to develop advanced simulations that could aid in the search for signals from intelligent life beyond our planet. This project aims to develop cutting-edge models and simulations that could help us detect signals that we may have previously missed. The simulations will be based on the latest data from space telescopes, including Kepler and TESS, and will incorporate machine learning algorithms to analyze data more efficiently. Our goal is to use these simulations to identify promising targets for future observations and ultimately, to contribute to the next steps in the search for extraterrestrial intelligence.