Assignment Analysis

Which paper proposes a novel method to attract the attention of, and ultimately

communicate with, extraterrestrial intelligence?

After reviewing the titles and topics of the four papers provided, the paper that clearly proposes a

novel method aimed at attracting the attention of extraterrestrial intelligence is:

Paper A: Transit Light-Curve Signatures of Artificial Objects

This paper explores the concept of detecting artificial objects via their transit light-curve signatures.

These objects could be deliberately constructed to produce recognizable patterns in starlight,

potentially as a signal to extraterrestrial observers. This aligns directly with the objective of using a

novel method to attract the attention of and communicate with extraterrestrial intelligence.

Analysis of the other papers:

- **Paper B** discusses the confirmation of a Saturn-like exoplanet orbiting an M Dwarf. It is focused

on planetary detection and not communication.

- **Paper C** studies microlensing effects of free-floating planets. It relates to observational

techniques in astrophysics, not interstellar communication.

- **Paper D** investigates how cloud variability affects atmospheric imaging of exoplanets, which is

relevant to climate modeling but not signaling extraterrestrials.

Therefore, only Paper A fits the assignment's requirement.

Correct Answer: Paper A

Transit Light-Curve Signatures of Artificial Objects