

# The Multiverse: God's Indeterminacy in Action

BSB A108, Monday, October 27, 6:00 – 8:00pm



This talk examines the concept of the multiverse in terms of its implications regarding the manner in which God, as Creator, interacts with creation.

The talk argues that a multiverse is the likely natural mechanism through which the God of infinitudes grants inherent freedom to a spatially and/or temporally infinite creation. In other words, the multiverse is God's means of indeterminacy in action.

This proposal is explored in terms of the general concept of multiverse and in the specific, various types of consistent multiverses. The related implications for sentient life within the multiverse are considered.

Dr. Gerald Cleaver, Professor and Graduate Program Director of the Department of Physics



Dr. Cleaver heads the Early Universe Cosmology and String Theory Division of Baylor's Center for Astrophysics, Space Physics and Engineering Research. Cleaver earned his Ph.D. at Caltech in 1993. His team conducts long-term systematic computer-based studies of the string landscape of around  $10^{500}$  possible string-derived universes and its theorized multiverse realization.

Cleaver is active in science/theology issues. He is a co-PI of the *Scientific and Theological Understandings of Randomness in Nature* project of the Center for Theology and the Natural Sciences, an affiliate of the Graduate Theological Union in Berkeley, California. The project is funded through a grant from Calvin College provided by the John Templeton Foundation. Participants in the project are studying the scientific warrants for the theological implications of randomness, propensities, and indeterminism in nature. Cleaver is investigating this in the context of a string multiverse.

Cleaver has written over 80 peer-reviewed physics journal articles and conference proceedings. He is co-author of an elementary particle physics textbook, referee for eight physics journals, member of the international advisory board of the Journal of the British Interplanetary Society, and member of four IQ and six science honor societies. Cleaver and his wife Lisa have three children. Cleaver's interests include flying radio controlled model airplanes, Tae Kwon Do, SCUBA, small boat sailing, and snow skiing.



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