

Jonas Mureika

Professor of Physics and Department Chair [On sabbatical Spring 2018] at Loyola Marymount University
Los Angeles, CA, US

Seaver College of Science and Engineering

Description

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Dr. Mureika spent much of his academic training at the University of Toronto, where he earned his B.Sc. in astronomy and physics and Ph.D. specializing in theoretical cosmology. He also holds an M.Sc. from the University of Waterloo where he studied particle physics.

His research is focused on modified theories of gravitation, from implications for early Universe cosmology, to micro black hole formation in high energy particle collisions. One such proposal that Dr. Mureika has helped advance is the idea that at high energies, the effective dimensionality of space decreases. A novel implication of this theory is that the universe was effectively one-dimensional in the moments following the Big Bang.

Dr. Mureika is currently interested in the observational signatures of quantum gravity that might arise in future experiments, including LIGO gravitational wave detections, and imaging of supermassive black holes through the Event Horizon Telescope.

Industry Expertise

Education/Learning, Research

Topics

Physics, Theoretical Cosmology, Particle Physics, Theories of Gravitation, Teaching, Models of Athletics, Black Holes

Affiliations

Education

University of Toronto

Ph.D. Physics

University of Waterloo

M.Sc. Physics

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