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Visualization of Relativity

Abstract

Visualizations that adopt a first-person point of view can provide an intuitive access to relativistic phenomena. This talk presents examples including moving through a city at nearly the speed of light, falling into a black hole, and traversing a Morris-Thorne-wormhole. The talk will also present a second visualization approach, using sector models to visualize the intrinsic geometry of curved spaces and spacetimes. Examples include black holes and neutron stars.