

# The Topology of Branching Universes

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## Abstract

The purpose of this paper is to survey the possible topologies of branching space-times, and, in particular, to refute the popular notion in the literature that a branching space-time requires a non-Hausdorff topology.

**Keywords:** space-time; many-worlds; topology

[Specific Sciences: Physics: Classical Physics](#)

[Specific Sciences: Physics: Cosmology](#)

**Subjects:** [Specific Sciences: Mathematics](#)

[Specific Sciences: Physics: Relativity Theory](#)

[Specific Sciences: Physics: Quantum Mechanics](#)

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