

Do the Causal Principles of Modern Physics Contradict Causal Anti-Fundamentalism?

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Abstract

In Norton(2003), it was urged that the world does not conform at a fundamental level to some robust principle of causality. To defend this view, I now argue that the causal notions and principles of modern physics do not express some universal causal principle, brought to light by discoveries in physics. Rather they merely assert that, according to relativity theory, spacetime has an invariant velocity, that of light; and that theories of matter admit no propagations faster than light.

Keywords: cause causation causality anti-fundamentalism physics light cone

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