

# Is There an Alternative to the Block Universe View?

Petkov, Vesselin (2005) Is There an Alternative to the Block Universe View?.

Full text available as:

[PDF](#) - Requires a viewer, such as [Adobe Acrobat Reader](#) or other PDF viewer.

## Abstract

This paper pursues two aims. First, to show that the block universe view, regarding the universe as a timelessly existing four-dimensional world, is the only one that is consistent with special relativity. Second, to argue that special relativity alone can resolve the debate on whether the world is three-dimensional or four-dimensional. The argument advanced in the paper is that if the world were three-dimensional the kinematic consequences of special relativity and more importantly the experiments confirming them would be impossible.

**Keywords:** Block universe, Minkowski spacetime, special relativity, existence

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

**ID Code:** 2408

**Deposited By:** [Petkov, Vesselin](#)

**Deposited On:** 21 August 2005