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Conventionality of Simultaneity and Reality

Petkov, Vesselin (2008) *Conventionality of Simultaneity and Reality*. [Preprint]



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Abstract

An important epistemological lesson can be learned from the impossibility to determine the one-way velocity of light and the immediate implication that simultaneity is conventional. The vicious circle -- to determine whether two distant events are simultaneous we need to know the one-way velocity of light between them, but to determine the one-way velocity of light we need to know that the two events are simultaneous -- is an indication of the need for a profound change of our view on reality.

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Item Type: Preprint

Additional Information: To appear in: D. Dieks (ed.), *The Ontology of Spacetime II* (Elsevier, Amsterdam 2008); "Philosophy and Foundations of Physics" Series, Volume 4, pp. 175-185.

Keywords: One-way velocity of light, conventionality of simultaneity, spacetime, dimensionality of the world

Subjects: [General Issues > Philosophers of Science](#)
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Depositing User: [Dr Vesselin Petkov](#)

Date Deposited: 14 Apr 2008

Last Modified: 07 Oct 2010 11:16

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