The incompleteness of extensional object languages of physics and time reversal. Part 2.

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Abstract

This continues from Part 1. It is shown how an intensional interpretation of physics object languages can be formalised, and how a syntactic compositional time reversal operator can subsequently be defined. This is applied to solve the problems used as examples in Part 1. A proof of a general theorem that such an operator must be defineable (for any general transformation) is sketched. A number of related issues about the interpretation of theories of physics, including classical and quantum mechanics and classical EM theory are discussed.

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