

Abstract Submitted
for the MAR11 Meeting of
The American Physical Society

Topos formulation of History Quantum Theory CECILIA FLORI,
Perimeter Institute — In this talk I will describe a topos formulation of consistent histories obtained using the topos reformulation of standard quantum mechanics put forward by Doering and Isham. Such a reformulation leads to a novel type of logic with which to represent propositions. In the first part of the talk I will introduce the topos reformulation of quantum mechanics. I will then explain how such a reformulation can be extended so as to include temporally-ordered collection of propositions as opposed to single time propositions. Finally I will show how such an extension will lead to the possibility of assigning truth values to temporal propositions.

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Date submitted: 14 Nov 2010

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