

How to put self-locating information in its place

Bartha, Paul (2006) How to put self-locating information in its place. In *[PSA 2006] Philosophy of Science Assoc. 20th Biennial Mtg (Vancouver): PSA 2006 Contributed Papers*.

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Abstract

How can self-locating propositions be integrated into normal patterns of belief revision? Puzzles such as Sleeping Beauty seem to show that such propositions lead to violation of ordinary principles for reasoning with subjective probability, such as Conditionalization and Reflection. I show that sophisticated forms of Conditionalization and Reflection are not only compatible with self-locating propositions, but also indispensable in understanding how they can function as evidence in Sleeping Beauty and similar cases.

Keywords: self-locating belief, Sleeping Beauty, Reflection Principle

Subjects: [General Issues: Decision Theory](#)

Conferences and Volumes: [\[PSA 2006\] Philosophy of Science Assoc. 20th Biennial Mtg \(Vancouver\): PSA 2006 Contributed Papers](#)

ID Code: 2993

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Deposited On: 18 October 2006