

# Measures, Explanations and the Past: Should 'Special' Initial Conditions be Explained?

Callender, Craig (2004) Measures, Explanations and the Past: Should 'Special' Initial Conditions be Explained?.

Full text available as:

[Microsoft Word](#) - Requires a viewer, such as [Microsoft Word Viewer](#)

## Abstract

For the generalizations of thermodynamics to obtain, it appears that a very "special" initial condition of the universe is required. Is this initial condition itself in need of explanation? I argue that it is not. In so doing, I offer a framework in which to think about "special" initial conditions in all areas of science, though I concentrate on the case of thermodynamics. I urge the view that it is not always a serious mark against a theory that it must posit an "improbable" initial condition.

**Keywords:** second law of thermodynamics; initial conditions; measures; explanation; entropy; time

**Subjects:** [General Issues: Laws of Nature](#)  
[General Issues: Explanation](#)  
[Specific Sciences: Physics: Statistical Mechanics/Thermodynamics](#)

**ID Code:** 1740

**Deposited By:** [Callender, Craig](#)

**Deposited On:** 30 April 2004

**Additional Information:** Forthcoming in British Journal for the Philosophy of Science