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# Kant's dynamical theory of matter in 1755, and its debt to speculative Newtonian experimentalism

Massimi, Michela (2009) *Kant's dynamical theory of matter in 1755, and its debt to speculative Newtonian experimentalism*. [Preprint]

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## Abstract

This paper explores the scientific sources behind Kant's early dynamical theory of matter in 1755, with a focus on two main Kant's writings: *Universal Natural History and Theory of the Heavens* and *On Fire*. The year 1755 has often been portrayed by Kantian scholars as a turning point in the intellectual career of the young Kant, with his much debated conversion to Newton. Via a careful analysis of some salient themes in the two aforementioned works, and a reconstruction of the scientific sources behind them, this paper shows Kant's debt to an often overlooked scientific tradition, i.e. speculative Newtonian experimentalism. The paper argues that more than the *Principia*, it was the speculative experimentalism that goes from Newton's *Opticks* to Herman Boerhaave's *Elementa chemiae* via Stephen Hales' *Vegetable Staticks* that played a central role in the elaboration of Kant's early dynamical theory of matter in 1755.

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Item Type: Preprint

Additional Information: Studies in History and Philosophy of Science (forthcoming)

Keywords: Kant, repulsive force, air, ether, Newton, Hales, Boerhaave

Subjects: [General Issues > History of Philosophy of Science](#)

Depositing User: [Michela Massimi](#)

Date Deposited: 07 Mar 2011 01:26

Last Modified: 05 Jun 2011 19:16

Item ID: 8507

URI: <http://philsci-archive.pitt.edu/id/eprint/8507>

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