

Login Create Account

Search & Browse

Simple Search Advanced Search Browse by Subject Browse by Year Browse by Conferences/Volumes

Latest Additions

Information

Home

About the Archive

Archive Policy

History

Help

FAQ

Journal Eprint Policies

Register

Contact Us

News

Guide to new PhilSci-Archive features.

Open or Closed? Dirac, Heisenberg, and the Relation between Classical and Quantum Mechanics

Bokulich, Alisa (2004) *Open or Closed? Dirac, Heisenberg, and the Relation between Classical and Quantum Mechanics.* [Preprint]



Abstract

This paper describes a long-standing, though little-known, debate between Paul Dirac and Werner Heisenberg over the nature of scientific methodology, theory change, and intertheoretic relations. Following Heisenberg' s terminology, their disagreements can be summarized as a debate over whether the classical and quantum theories are " open" or " closed." A close examination of this debate sheds new light on the philosophical views of two of the great founders of quantum theory.

Export/Citation: <u>EndNote</u> | <u>BibTeX</u> | <u>Dublin Core</u> | <u>ASCII (Chicago style)</u> | <u>HTML Citation</u> | <u>OpenURL</u> Social Networking: <u>Share</u> |

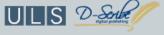
Item Type:	Preprint
Additional Information:	This paper is forthcoming in Studies in History and Philosophy of Modern Physics (2004) 35 (3).
Keywords:	Heisenberg; Dirac; Classical mechanics; Quantum mechanics; Closed theory; Intertheoretic relations; reductionism; Kuhn; theory change
Subjects:	<u>Specific Sciences > Physics > Classical Physics</u> <u>General Issues > History of Philosophy of Science</u> <u>General Issues > Theory Change</u> <u>Specific Sciences > Physics > Quantum Mechanics</u>
Depositing User:	Alisa Bokulich
Date Deposited:	13 Feb 2004
Last Modified:	07 Oct 2010 11:12
I tem I D:	1614
URI :	http://philsci-archive.pitt.edu/id/eprint/1614

Actions (login required)

View Item

Document Downloads

ULS D-Scribe



This site is hosted by the <u>University</u> <u>Library System</u> of the <u>University of</u> <u>Pittsburgh</u> as part of its <u>D-Scribe</u> <u>Digital Publishing Program</u>

E-Prints

eprints

Philsci Archive is powered by <u>EPrints</u> <u>3</u> which is developed by the <u>School</u> of <u>Electronics and Computer</u> <u>Science</u> at the University of Southampton. <u>More information</u> <u>and software credits</u>. Share

Feeds

