Panoramica sulla storia della fisica recente negli Stati Uniti e in Germania tra affiliazioni istituzionali e direzioni di ricerca

Roberto Lalli

Prospettive della Storia delle Scienze Esatte Tra Fisica e Filosofia

Facoltà di Ingegneria, Roma, 20-21 aprile 2018

Storia della Fisica Recente

Rethinking 'Classical Physics'

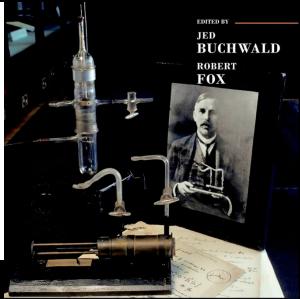
Graeme Gooday (Leeds) & Daniel Mitchell (Hong Kong)

Chapter for Robert Fox & Jed Buchwald, editors

Oxford Handbook of the History of Physics

(Oxford University Press, in preparation)

What is 'classical physics'? Physicists have typically treated it as a useful and unproblematic category to characterize their discipline from Newton until the advent of 'modern physics' in the early twentieth century. But from the historian's point of view, over the last three decades



■ The Oxford Handbook of THE HISTORY OF PHYSICS



On the Co-Creation of Classical and Modern Physics

By Richard Staley*

ABSTRACT

While the concept of "classical physics" has long framed our understanding of the environment from which modern physics emerged, it has consistently been read back into a period in which the physicists concerned initially considered their work in quite other terms. This essay explores the shifting currency of the rich cultural image of the classical/modern divide by tracing empirically different uses of "classical" within the physics community from the 1890s to 1911. A study of fin-de-siècle addresses shows that the earliest general uses of the concept proved controversial. Our present understanding of the term was in large part shaped by its incorporation (in different ways) within the emerging theories of relativity and quantum theory—where the content of "classical" physics was defined by proponents of the new. Studying the diverse ways in which Boltzmann, Larmor, Poincaré, Einstein, Minkowski, and Planck invoked the term "classical" will help clarify the critical relations between physicists' research programs and their use of worldview arguments in fashioning modern physics.



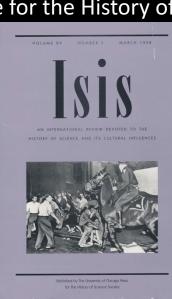
Harvard Science Center, Cambridge, MA

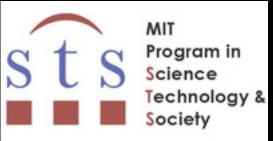


2007 Meeting History of Science Society (Washington D.C.)

Library Max Planck Institute for the History of

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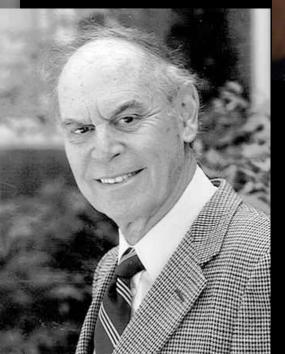
History of Science

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Physics

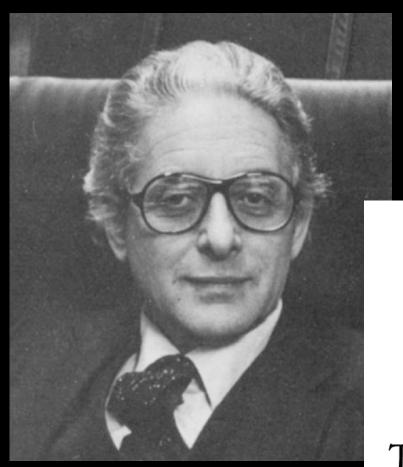
History of Science











A Guide to Graduate Study and Research in the History of Science and Medicine

By Derek J. de Solla Price*

THE FOLLOWING LIST has been drawn up on the basis of information received from the major institutions in the United States and Canada where there exist opportunities for graduate studies and research in the history of science (and technology) and the history of medicine. It should be noted that these studies may be offered in connection with related but here unlisted fields, such as history, philosophy of science, sociology of science, and science policy studies, which may or may not be administered by the same department or program. I have listed the name and address of the

10% historians of recent physics



RUSSELL MCCORMMACH

Historical Studies in the Physical Sciences, Volume 5



1969-1985

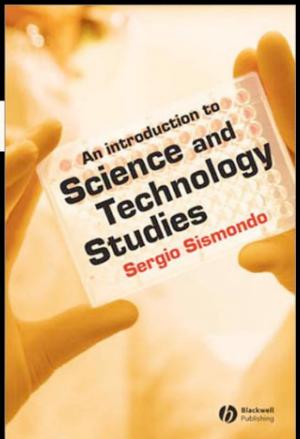


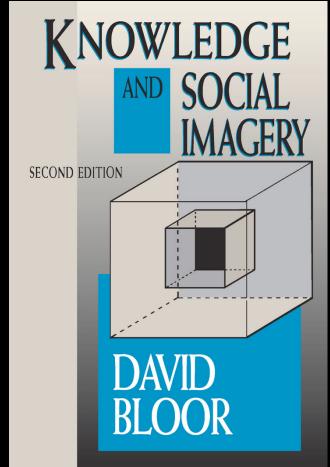
The Cultural Turn

Selected Writings on the Postmodern, 1983-1998



Fredric Jameson





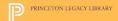
Weimar Culture, Causality, and Quantum Theory, 1918–1927: Adaptation by German Physicists and Mathematicians to a Hostile Intellectual Environment

BY PAUL FORMAN*

"It is interesting to observe that even physics, a discipline rigorously bound to the results of experiment, is led into paths which run perfectly parallel to the paths of the intellectual movements in other areas [of modern life]." Gustav Mie, inaugural lecture as Professor of Physics, University of Freiburg i.B., 26 January 1925.

RUSSELL MCCORMMACH

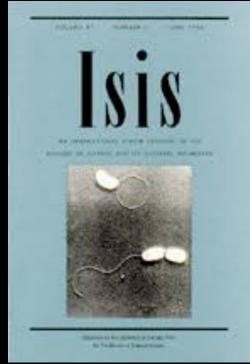
Historical Studies in the Physical Sciences, Volume *5*

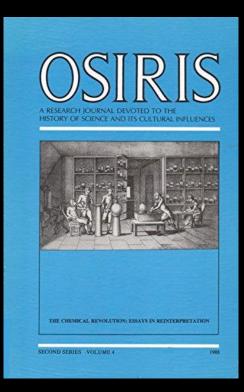




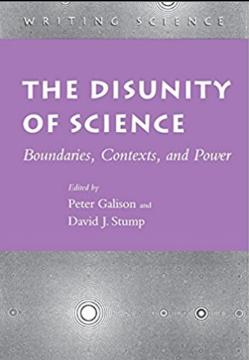


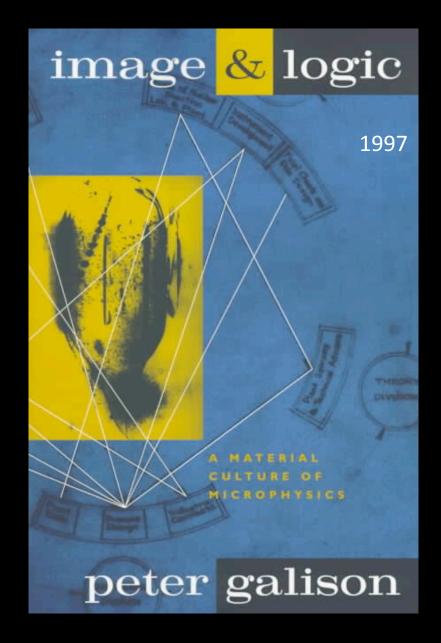














History of Science Society

Founded in 1924 to foster interest in the history of science and its social and cultural relations

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Graduate Programs in History of Science

Note: This site is intended to begin the process of creating a more up-to-date list of graduate programs in the history of science and related fields.

Please be aware that the links often direct the reader to the specific pages within the program website in which history of science is discussed in some capacity rather than direct links to admission information. General admission links can be easily added at a later date.

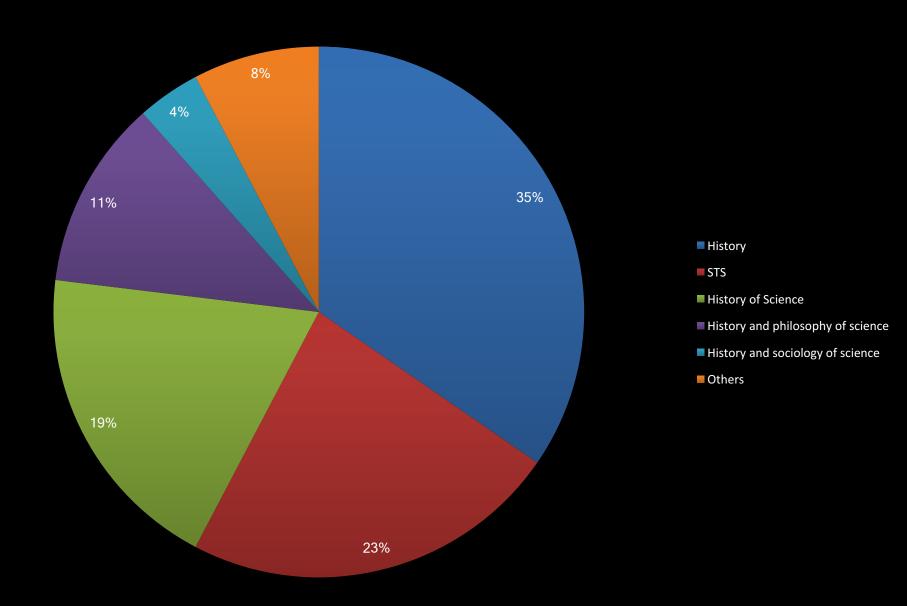
If you have any comments, questions, additions, edits, or concerns, please email HSS Society office at info@hssonline.org. Include the link to this page and specify what changes and/or additions you would like to be made.

Graduate Programs in History of Science and **Related Studies**

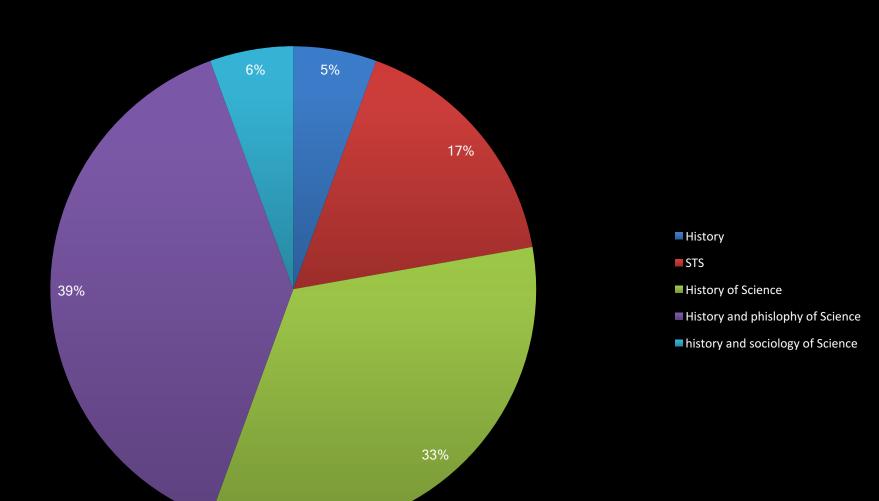
US / International

University (US)	Degrees Offered	Department Name			
Arizona State University	MS and PhD in Biology, Concentration in Biology and Society (focus on History and Philosophy of Science); PhD in History and Philosophy of Science; PhD in the Human and Social Dimensions of Science and Technology (Graduate College)	Center for Biology and Society			
Auburn University	MA and PhD (focus in history of technology)	Department of History			
Brown University	MA and PhD (focus in history of science, technology, environment, and medicine)	Department of History (with access to a University-wide STS program)			

History of science graduate programs



History of recent physics





Peter Galison (Harvard)



David Kaiser (MIT)



Michael Gordin (Princeton)



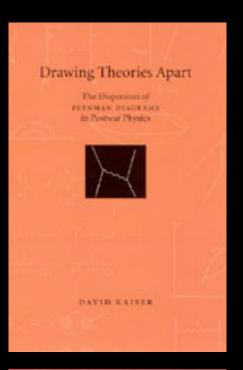
Cathryn Carson (UC Berkeley)

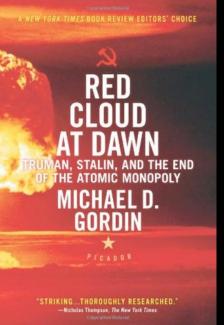


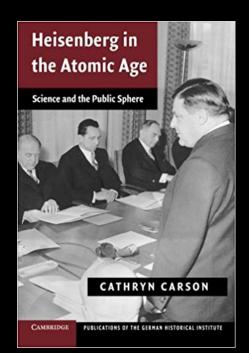
Deborah Coen (Yale)

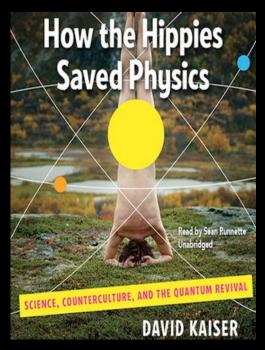


Benjamin Wilson (Harvard)









BENJAMIN WILSON*

The Consultants: Nonlinear Optics and the Social World of Cold War Science

ABSTRACT

After the laser was first demonstrated in 1960, many American defense officials hoped it would become a revolutionary new weapon. At the Institute for Defense Analyses (IDA), a nonprofit advisory corporation contracted to the Defense Department, experts studied the possibility of using lasers to defend against nuclear-tipped ballistic missiles. A few academic consultants for IDA (among them physicists Nicolaas Bloembergen, Charles Townes, Keith Brueckner, and Norman Kroll) began to think about how to generate laser pulses of enormous power and propagate them through the atmosphere. Along the way, in a mix of classified discussions and reports, and through a series of important publications in the open literature, the consultants laid the foundations of a new field: nonlinear optics. Nonlinear optics is the science of the interaction between matter and intense light, and it became a major branch of physics in the 1960s. The field's history calls for deeper consideration of the ways in which powerful institutions and the production of knowledge were joined in the Cold War era. Though nonlinear optics was every bit "Cold War science," the conventional and widely used concept of "patronage" seems inadequate for understanding the

Removing Knowledge

Peter Galison

Introduction

You might think that the guarded annals of classified information largely consist of that rare document, a small, tightly guarded annex to the vast sum of human writing and learning. True, the number of carefully archived pages written in the open is large. While hard to estimate, one could begin by taking the number of items on the shelves of the Library of Congress, one of the largest libraries in the world: 120 million items carrying about 7.5 billion pages, of which about 5.4 billion pages are in 18 million books.

In fact, the classified universe, as it is sometimes called, is certainly not smaller and very probably is much larger than this unclassified one. No one has any very good idea how many classified documents there are. No one did before the digital transformation of the late twentieth century, and now—at least after 2001—even the old sampling methods are recognized

Physics

Philosophy of Science





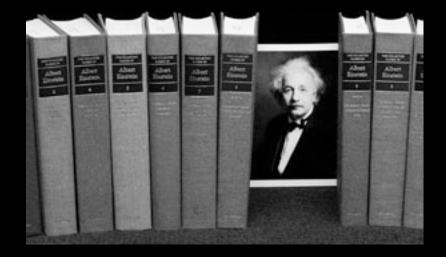
University of Pittsburgh



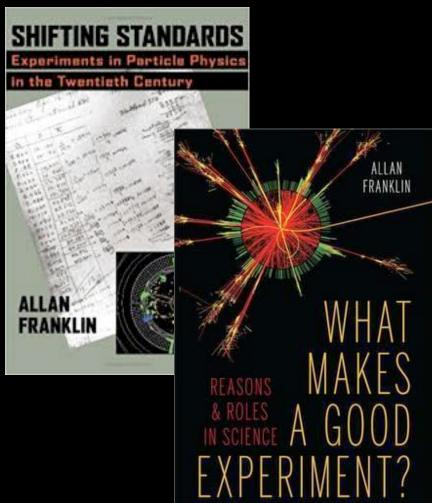










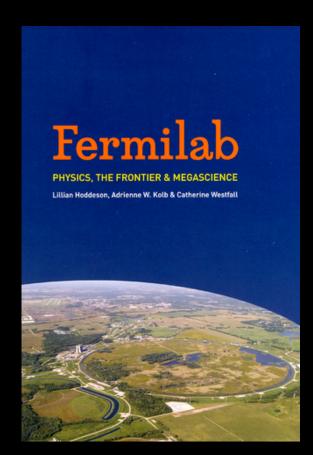


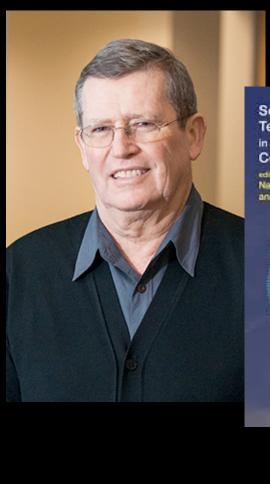
Making Physics

A Biography of Brookhaven National Laboratory, 1946–1972

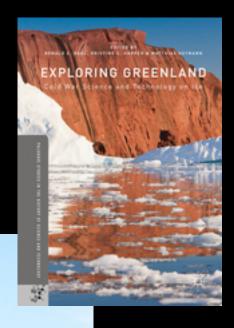


Robert P. Crease











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The Forum on the History of Physics brings together physicists, historians, and other members of APS with an interest in the history physics and its impact on culture, education, and physics research itself. The Forum issues a semiannual Newsletter and organizes and sponsors sessions at the March and April APS meetings.

Ryan Chaban Wins History of Physics Essay Contest



Quick Links





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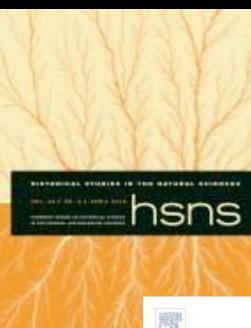


The Center for History of Physics supports the efforts of the scholarly community to document, investigate, and understand the nature and origin of developments in modern physics and their impact on society through:

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Physics Perspective



VOLUME 61 February 2018 ISSN 1355-2198

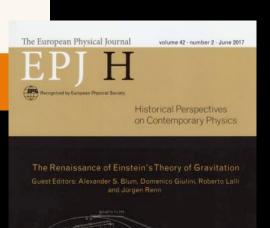


Studies in History and Philosophy of Science Part B

Studies in History and Philosophy of Modern Physics

SPECIAL ISSUE - Hermann Weyl and the Philosophy of the 'New Physics' Guest Editors: Silvia De Bianchi and Gabriel Catren

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5	Psychologi	ical Methods	journal	4.250 Q1	116	47	118	1965	550	92	4.41	41.81	
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10	Social Stud	dies of Science	journal	1.945 Q1	67	38	135	2467	413	134	2.27	64.92	
11	Social Scie	nce and Medicine	journal	1.739 Q1	195	564	1762	28226	5582	1601	3.11	50.05	200
12	Public Opir	nion Quarterly	journal	1.560 Q1	81	43	131	1954	209	125	1.37	45.44	20
13	Journal of	Sex Research	journal	1.395 Q1	81	133	258	5984	703	237	2.74	44.99	200
14	Philosophy	and Phenomenological Research	journal	1.232 Q1	25	121	250	2570	168	232	0.77	21.24	
15	Qualitative	Research	journal	1.228 Q1	45	36	138	1674	314	131	1.68	46.50	
16	Philosophy	of Science	journal	1.082 Q1	51	74	250	1984	263	241	0.90	26.81	
17	European J	lournal for Philosophy of Science	journal	0.874 Q1	10	24	64	971	65	62	0.75	40.46	-
18	New Ideas	in Psychology	journal	0.854 Q1	31	39	98	1850	152	87	1.54	47.44	200

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Potential predatory scholarly open-access publishers

Instructions: first, find the journal's publisher - it is usually written at the bottom of journal's webpage or in the "About" section. Then simply enter the publisher's name or its URL in the search box above. If the journal does not have a publisher use the Standalone Journals list.

Original list

This is an archived version of the Beall's list - a list of potential predatory publishers created by a librarian Jeffrey Beall. We will only update links and add notes to this list. A list of new predatory publishers is available below the original one.

- 1088 Email Press
- 2425 Publishers

Other important lists

List of journals falsely claiming to be indexed by DOAJ

DOAJ: Journals added and removed

JCR Master Journal List

Ouestionable conferences

How to avoid predatory conferences











Dept. I

Structural Changes in Systems of Knowledge



Dept. II

Ideals & Practices of Rationality





Dept. III

Artefacts, Action, & Knowledge



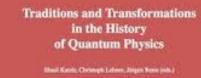
Dept. I

Structural Changes in Systems of Knowledge

Umbrella Research Theme (1997-)

II. The Long-term Evolution of Mechanical Knowledge







HQ-1 Conference on the History of Quantum Physics

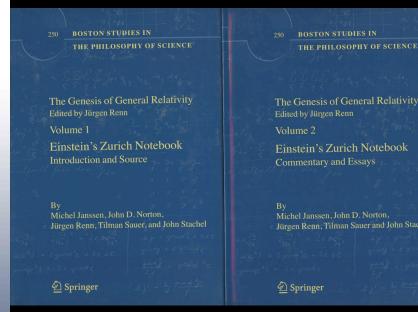
July 2-6, Max Planck Institute for the History of Science

quantum-history.mpiwg-berlin.mpg.de/news/workshops/hql

Program Committee: Don Howard John Norton

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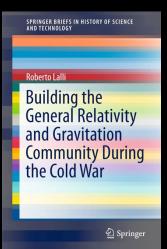




Umbrella Research Theme (2017-)

III. Rethinking Basic Science

$$\begin{split} & Z_{\nu}^{0}(W_{\mu}^{+}\partial_{\nu}W_{\mu}^{-} - W_{\mu}^{-}\partial_{\nu}W_{\mu}^{+}) + Z_{\rho}^{0}(W_{\nu}^{+}\partial_{\nu}W_{\mu}^{-}) \\ & W_{\nu}^{-} - W_{\nu}^{+}W_{\nu}^{-}) - A_{\sigma}(W_{\mu}^{+}\partial_{\nu}W_{\mu}^{-} - W_{\mu}^{-}\partial_{\nu}W_{\mu}^{+}) \\ & \frac{1}{2}g^{2}W_{\mu}^{+}W_{\nu}^{-}W_{\nu}^{+}V_{\nu}^{-} + \frac{1}{2}g^{2}W_{\mu}^{+}W_{\nu}^{-}W_{\mu}^{+}V_{\nu}^{-} + g^{2}c_{\sigma}^{-}\\ & P_{\sigma}^{2}S_{\omega}(A_{\mu}W_{\mu}^{+}A_{\nu}W_{\nu}^{-} - A_{\mu}A_{\mu}V_{\nu}^{+}W_{\nu}^{-}) + g^{2}s_{\omega}c_{\omega}\\ & Z_{\mu}^{0}W_{\nu}^{+}W_{\nu}^{-}) - \frac{1}{2}\partial_{\mu}H\partial_{\mu}H - 2M^{2}\alpha_{h}H^{2} - \partial_{\mu}\phi^{+}\partial_{\rho}\\ & Q\alpha_{h}M(H^{3} + H\phi^{0}\phi^{0} + 2H\phi^{+}\phi^{-}) \\ & + (\phi^{0})^{4} + 4(\phi^{5}\phi^{-})^{2} + 4(\phi^{0})^{2}\phi^{+}\phi^{-} + 4H^{2}\phi^{+}\phi^{-}\\ & gMW_{\mu}^{+}W_{\mu}^{-}H - \frac{1}{2}g\frac{Z}{c_{\nu}}Z_{\mu}^{0}Z_{\mu}^{0}H - \\ & (W_{\mu}^{+}(\phi^{0}\partial_{\nu}\phi^{-} - \phi^{-}\partial_{\rho}\phi^{+}) - W_{\nu}^{-}(\phi^{0}\partial_{\nu}\phi^{+} - \phi^{+}\partial_{\mu}H)) + \frac{1}{2}g\frac{C}{c_{\omega}}(Z_{\mu}^{0}X_{\mu}^{0}W_{\mu}^{+}\phi^{-}) \\ & + (\phi^{-}\partial_{\mu}H) + W_{\mu}^{-}(H\partial_{\mu}\phi^{+} - \phi^{+}\partial_{\mu}H)) + \frac{1}{2}g\frac{C}{c_{\omega}}(Z_{\mu}^{0}X_{\mu}^{0}) \\ & + (Q_{\mu}^{-}(\phi^{+}\partial_{\nu}\phi^{+}) - ig\frac{Z}{c_{\omega}}M_{\mu}^{0}(W_{\mu}^{+}\phi^{-}) \\ & + (Q_{\mu}^{-}(\phi^{+}\partial_{\nu}\phi^{+}) - ig\frac{Z}{c_{\omega}}M_{\mu}^{0}(W_{\mu}^{+}\phi^{-}) \\ & + (Q_{\mu}^{-}(\phi^{+}\partial_{\nu}\phi^{-}) - \phi^{-}\partial_{\rho}\phi^{+}) + igs_{\omega}A_{\mu} \end{split}$$



Project (2015-)

The Renaissance of General Relativity in the Post-World War II Period



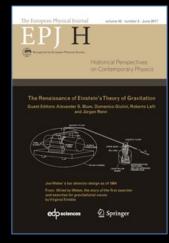
The Reinvention of General Relativity: A Historiographical Framework for Assessing One Hundred Years of Curved Space-time

Alexander Blum, Max Planck Institute for the History of Science Roberto Lalli, Max Planck Institute for the History of Science Jürgen Renn, Max Planck Institute for the History of Science

Abstract. The bishery of the theory of general relativity presents unique features. After its discussey, the theory was immediately confirmed and quighty changed and could be considered to the contract of the contract of the contract of the contract of the contract to the feature as a physical theory and gradually returned to the ministratum of physics. This comp presents a biotizergative all returned to the emission gives the physics. The comp presents a biotizergative almores due to assess the contract of the contract to the contract of the contract to the contract of the contract to the contract of the contract

One hundred years after its creation, the theory of general relativity is still the standard theory of gavitational phenomena, the basis for cosmological research, and, perhaps most important, the thore of that makes the most definite statements about what physicists means when they speak of space and time. In the last thirty year, it has also become an active field of historial interesticient. While most how there have no not rendritive and sensor in the contraction of the contracti

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Umbrella Research Theme (2017-)

IV. Knowledge in and of the Anthropocene



gmeg

Forschungsprogramm Geschichte der Max-Planck-Gesellschaft

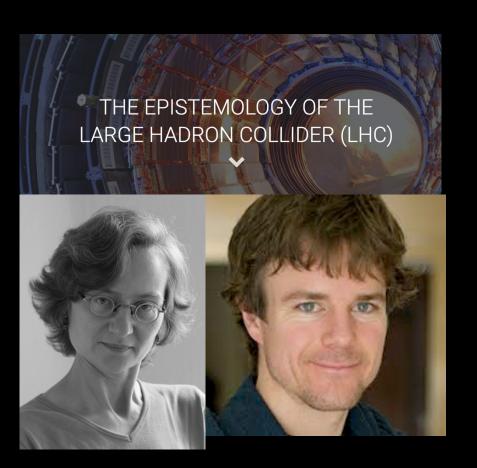


Max Planck Research Group (Final Theory Program)

Historical Epistemology of the Final Theory Program















Biographies in the History of Physics: Actors, Institutions, and Objects

Workshop funded by the Wilhelm and Else Heraeus-Foundation and the German Physical Society

May 22nd to May 25, 2018

Physikzentrum, Bad Honnef, Germany

Organization: German Physical Society, Division for the History of Physics

Call for Papers: Please download the call for papers here: cfp.pdf

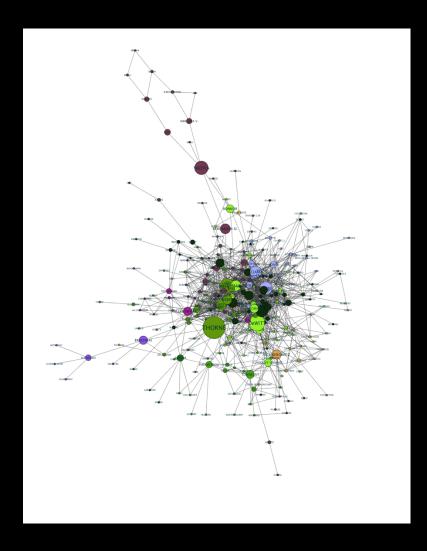
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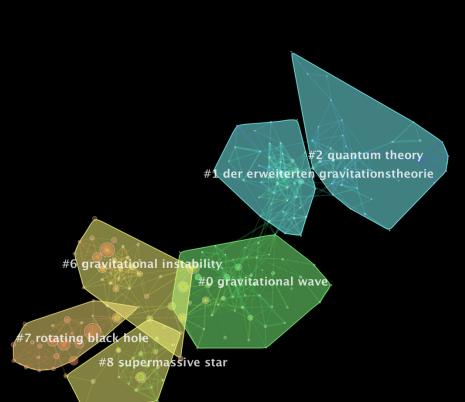
Venue: The Physikzentrum Bad Honnef

Guidelines for publication: guidelines.pdf

PD Dr. habil. Christian Forstner Goethe-Universität Frankfurt am Main SFB 1095, Schwächediskurse und Ressourcenregime" Gräfstraße 78 | 60486 Frankfurt | Postfach 104 Tel: +49 (0) 171 18 262 13 forstner@em.uni-frankfurt.de

Digital Humanities





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