

Searching Literature on WWW

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Searching on Web: Search Engines

- ▶ **Google** - The world's most popular search engine.
- ▶ **Yahoo! Search:** The 2nd largest search engine on the web.
- ▶ **Lycos:** Initial focus was broadband entertainment content, still a top 5 Internet portal.
- ▶ **Sphere:** connects your current articles to contextually relevant content from your archives as well as from Blog Posts, Media Articles, Video, Photos, and Ads from across the Web.
- ▶ **FreeBookSearch.net:** Comprehensive book searching portal with more than 30 search engines in its archive, the site searches hundreds of digital libraries and also scours the net for hidden books.
- ▶ **TEK(time \equiv knowledge) search engine:** is an email-based search engine developed at the Massachusetts Institute of Technology. The search engine enables users to search the Web using only email. It is intended to be used by people with low Internet connectivity.



- ▶ **Google Scholar and other Information Resource Tools:**
 - ▶ Search tool that links to scholarly research materials
 - ▶ <http://scholar.google.com>
 - ▶ Easy to search
 - ▶ Increases visibility of scholarly literature
 - ▶ Peer-reviewed papers, theses, books, preprints, abstracts and technical reports, author web pages that link their own research papers
 - ▶ Indexes a subset of scholarly literature in all fields.
 - ▶ Search results include cited references

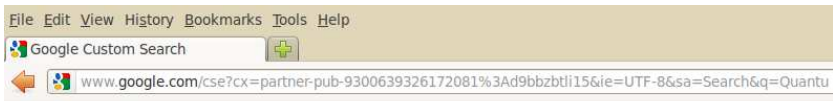
- ▶ Literature from journal articles in different subject areas but mainly science and technology related
- ▶ Many of Drexel's subscription based databases such as ScienceDirect, and Cambridge Scientific Abstracts are searchable in GS - on campus link to full text
- ▶ Provides citation information about the article
- ▶ Variety of academic publishers, professional societies, preprint repositories and universities

When Google Scholar is best to use?

- ▶ Initial searching for scholarly literature
- ▶ When a particular article from a specific journal needed
- ▶ Quickly find a relevant article - search results sorted by relevancy. Relevance ranking takes into account the full text of each article, the article's author, the publication in which the article appeared and how often it has been cited in scholarly literature.
- ▶ Anticipated more “use by beginning level researchers who want a few articles on a topic rather than serious scholars who need to do thorough research using a variety of resources”

When Google Scholar is best to use?

- ▶ When we know title of the paper needed
Highly-ordered carbon nanotube arrays for electronics applications. [Applied Physics Letters 75, 367 (1999)] GS finds it easily
- ▶ Quick search on a particular topic
'Carbon Nanotube arrays' - Nice looking results with citations coming from different journals including books
- ▶ Quick overview of works by a particular author
author:bilgutay, N
- ▶ Articles in a particular journal on a particular topic (Using 'Advanced Keyword') See: 'Carbon Nanotubes' in 'Nature Materials'
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[Quantum mechanics - Wikipedia, the free encyclopedia](#)

Predictions of **quantum** mechanics have been verified experimentally to an extremely high ...

en.wikipedia.org/wiki/Quantum_mechanics

[What is Quantum Physics](#)

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Personal and Historical Perspectives of Hans Bethe

bethe.cornell.edu

Personal and Historical Perspectives of Hans Bethe

Quantum Physics Made Relatively Simple

Home About Reading Lecture 1



Introduction

12 minutes

[Large Video](#) (28 MB)

[Small Video](#) (5 MB)

[Audio Only](#) (3 MB)



Lecture 1

49 minutes

[Large Video](#) (102 MB)

[Small Video](#) (12 MB)

[Audio Only](#) (4 MB)

Three Lectures

IN 1999, legendary physicist Hans Bethe delivered three lectures to his neighbors at the Kendall Square community (near Cornell University) at the age of 90. Professor Bethe at age 90 here as QuickTime video of his talking points and

Intended for an audience of his neighbors at Kendall, Cornell experts and non-experts, this makes use of limited resources: the personal and historical perspectives of the principal architects of



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The screenshot shows a web browser window with the following elements:

- Address Bar:** `scholar.google.co.in/scholar?hl=en&as_sdt=0,5&q=Quantum+physics`
- Search Bar:** Contains the text "Quantum physics".
- Navigation:** "Scholar" button, "Articles and patents" dropdown, "anytime" dropdown, "include citations" dropdown, and "Create email alert" button.
- Search Results:**
 - Result 1:**
 - Label: [BOOK] [Local quantum physics](#)
 - Author: R Haag - 1996 - tocs.ulb.tu-darmstadt.de
 - Abstract: 2.1 Algebras of bounded operators. Concrete C^* -algebras and von Neumann algebras. Isomorphisms. Reduction. Factors. Classification of factors. 2.2 Abstract algebras and their representations. Abstract C^* -algebras. Relation between the C^* -norm and the spectrum. ...
 - Metadata: Cited by 1704 - [Related articles](#) - [View as HTML](#) - [All 13 versions](#)
 - Result 2:**
 - Label: [CITATION] [Quantum physics: a functional integral point of view](#)
 - Author: J Glimm, ... - 1987 - getcited.org
 - Abstract: ... **Quantum physics**: A functional integral point of view. Post a Comment. CONTRIBUTORS: Author: Glimm, James, ... PAGES (INTRO/BODY): xxii, 535 p. SUBJECT(S): **Quantum** field theory; **Quantum** theory; Statistical **physics**. DISCIPLINE: No discipline assigned. ...
 - Metadata: Cited by 1598 - [Related articles](#) - [Cached](#) - [All 6 versions](#)
 - Result 3:**
 - Label: [BOOK] [Angular Momentum in Quantum Physics: Theory and Application, Encyclopedia of Mathematics and its Applications](#)
 - Author: LC Biedenharn, ... - 1981 - lavoisier.fr
 - Abstract: ... WebAnalytics solution by WebAnalytics - AT Internet. Notice. Imprimer la notice. Angular momentum in **quantum physics**: theory & application (Encyclopedia of mathematics & its applications, N° 8). ... Résumé d'Angular momentum in **quantum physics**: theory &... : ...
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 - Result 4:**
 - Label: [BOOK] [Green's functions in quantum physics](#)
 - Author: EN Economou, ... - 1979 - ulb.tu-darmstadt.de
 - Abstract: Page 1. Eleftherios N. Economou Green's Functions in **Quantum Physics** Third Edition With 60 Figures tyA Springer Page 2. Contents Part I Green's Functions in Mathematical **Physics** 1 Time-Independent Green's Functions 3 1.1 Formalism 3 1.2 Examples 9 ...
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[PDF] from tu-darmstadt.de

The screenshot shows a web browser window with the Google Scholar search results for 'Quantum physics'. The browser's address bar shows the URL: `scholar.google.co.in/scholar?hl=en&q=Quantum+physics&as_sdt=0%2C5&as_ylo=1993&as_vis=0`. The search results are displayed in a list format, with each entry including a citation type (e.g., [BOOK], [CITATION]), the title, author, year, publisher, and a brief abstract. Each entry also includes a 'Cited by' count and links to 'Related articles' and 'All versions'. On the right side of each entry, there is a link to a PDF file, such as '[PDF] from heacademy.ac.uk' or '[PDF] from arxiv.org'. The browser's interface includes a menu bar (File, Edit, View, History, Bookmarks, Tools, Help), a search bar, and a navigation bar with links to various services like Search, Images, Maps, Play, YouTube, News, Gmail, and More.

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scholar.google.co.in/scholar?hl=en&q=Quantum+physics&as_sdt=0%2C5&as_ylo=1993&as_vis=0

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[BOOK] **Quantum physics** [PDF] from heacademy.ac.uk
S Gasirowicz - 2007 - books.google.com
Quantum Physics is a unique book in that it has a mathematical orientation and focuses only on the core quantum concepts. The Emergence of Quantum Physics: Wave Particle Duality, Probability, and the Schrödinger Equation: Eigenvalues, Eigenfunctions, and the ...
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Room-temperature quantum Hall effect in graphene [PDF] from arxiv.org
KS Novoselov, Z Jiang, Y Zhang, SV Morozov... - Science, 2007 - sciencemag.org
... Abstract. The quantum Hall effect (QHE), one example of a quantum phenomenon that occurs on a truly macroscopic scale, has attracted intense interest since its discovery in 1980 and has helped elucidate many important aspects of quantum physics. ...
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T Giamarchi - 2004 - Oxford University Press, USA
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Home > Science Magazine > 9 March 2007 > Novoselov et al., 315 (5817): 1379

Published Online February 15 2007
Science 9 March 2007:
Vol. 315 no. 5817 p. 1379
DOI: 10.1126/science.1137201

< Prev | Table of Contents | Next >

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Room-Temperature Quantum Hall Effect in Graphene

K. S. Novoselov¹, Z. Jiang^{2,3}, Y. Zhang³, S. V. Morozov¹, H. L. Stormer², U. Zeitler⁴, J. C. Maan⁴, G. S. Boebinger³, P. Kim^{2,5} and A. K. Geim^{1,5}

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File Edit View Go Help

 Previous
  Next
 (1 of 1)
  Fit Page Width

Room-Temperature Quantum Hall Effect in Graphene

K.S. Novoselov¹, Z. Jiang^{2,3}, Y. Zhang², S.V. Morozov¹, H.L. Stormer², U. Zeitler⁴, J.C. Maan⁴, G.S. Boebinger³, P. Kim

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The quantum Hall effect (QHE), one example of a quantum phenomenon that occurs on a truly macroscopic scale, has been of great interest since its discovery in 1980 (1). The QHE is exclusive to two-dimensional (2D) metals and has elucidated many quantum physics and deepened our understanding of interacting systems. It has also led to the establishment of a new resistance quantum h/e^2 that contains only fundamental constants of the electron charge e and the Planck constant h . Quantum phenomena, the observation of the QHE usually requires low temperatures T , typically below the boiling point of liquid helium. Efforts to extend the QHE temperature range by, for example, using semiconductors with small effective masses of charge carriers have failed to reach T above 30K (3,4). These efforts are driven by both innate desire to observe apparently fragile quantum phenomena under ambient conditions and the pragmatic need to perform metrology at room or, at least, liquid-nitrogen temperatures. More recently, it has been implied by their persistence to higher T , would also provide added freedom to investigate finer features of the QHE and, in particular, quantization accuracy (2). Here, we show that in graphene - a single layer of carbon atoms tightly packed in a honeycomb lattice - the QHE can be observed even at room temperature. This is due to the highly unusual nature of charge carriers in graphene.

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Quantum Physics, 3Rd Ed - Ste...

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By Stephen Gasiorowicz

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The Emergence of Quantum Physics

Quantum theory grew out of an interplay of ground-breaking experiments and theoretical proposals that were not based on accepted classical physics. Our object of this chapter is to summarize briefly the critical events that took place between 1919 and 1925, when quantum mechanics was created. We shall be very brief in our coverage since these matters are discussed in much more detail in textbooks on modern physics.

1-1 BLACKBODY RADIATION

The study of radiation emitted by a heated body in equilibrium, initiated by the physicist Gustav Kirchhoff in 1859, led to the recognition that the intensity of radiation emitted by a totally absorbing surface (a *black body*)—in practice a small hole in an enclosure—was a universal function of the temperature T and the wavelength λ .