

Verteilte und zentrale Konzepte von PhysNet

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Überblick

- Was ist PhysNet?
 - Oberfläche
 - Prinzipien
 - Organisation
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- Zusammenfassung

PhysNet the physics departments and documents network
www.physnet.net

Was ist PhysNet? Oberfläche

PhysNet the physics departments and documents network
about PhysNet | the PhysNet-crew | how to contribute? | statistics | what's new?

PhysNet

PhysDep

PhysDoc

PhysTopics

Journals

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PhysJobs

Education

Links

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PhysTopics

You are searching for
Colleagues or
Institutions working on
your own or any other
field of Physics?
PhysTopics offers an
overview of Institutions,
Working Groups,
Journals etc. sorted by
their field of Physics
activity.

PhysNet Ontology

PhysNet has been
reimplemented to a
semantic RDF
database. Additional
information about
institutions provided is
linked with the buttons
in the lists.

FAQ Open Access

PhysNet offers detailed

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Berlin, 24.04.2006

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Was ist PhysNet? Prinzipien

- Charter:
 - PhysNet is a **not-for-profit activity of active physicists** and their organisations, to serve research, teaching and the public with professional physics information.
 - **Active contribution** of information, services and their organization **is open** to any individual scientist, institution, or physical society.
 - Active contributions of physicists or their organization are **voluntary, financing their own part** by their own sources.
 - The **responsibility for the correctness**, professional quality, timeliness, integrity, and physics content lies with the individual contributors.

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Was ist PhysNet? Prinzipien

- Charter:
 - The co-ordination bodies are responsible for the co-ordination, checking and **usage of international standards** of individual services.
 - The organization of PhysNet is such that each active participant, institution, or society has the **same balanced rights** for its tasks.
 - The set of services and its organisation is **distributed, among the information providers**.
 - Information offered by PhysNet is **free to access** for anyone.

Was ist PhysNet? Prinzipien

- Charter:
 - The international physics organizations are to organize and watch over the **freedom of information**, the **use of international standards**, and the **unbiased balance of national interests**. The **distributed organization** is assumed by national societies, individual members, and service providers.
 - Software written for PhysNet is **free to be used** by any Physicist, Physics Institution, or Society for the improvement of their information and services to PhysNet.

Was ist PhysNet? Organisation

- Nutzersicht: www.physnet.net als zentraler Zugang, leitet jeweils auf vermutlich nächsten aktuellen Mirror-Server weiter.
- Redundanz: Fast alle Spiegel haben Domains der Form cc.physnet.net (cc = Country Code), also fr.physnet.net oder ru.physnet.net etc., so dass User ggf. einen Mirrorserver „erraten“ können.
- 1 Hauptserver und 13 Spiegel (Mirrors)
- Content-Editoren: z.Zt. 14 Editoren

Was ist PhysNet? Historie

- Beginn als Link-Liste in einem BMBF-Vorhaben 1994 (deutsche Physik-Fachbereiche mit HTTP-Servern ausrüsten)
- Seit 1996 unter der Schirmherrschaft der EPS
- Dauerhaft mit ein bis zwei Studenten betrieben, impulsweise Entwicklungs- und Netzwerk-Projekte:

Was ist PhysNet? Historie

- 1997 – 1999 DFN-Projekt „eprint“ (das wohl erste Open-Access Projekt Deutschlands), Aufbau der verteilten Suchmaschinen-Infrastruktur
- 1999 – 2002 BMBF Global-Info Projekt „CARMEN“, Anreicherung der Suche mit fachspezifischen Metadaten, fachübergreifende Vernetzung
- 2001 – 2003 DFN-Projekt „SINN“ Netzwerk von Administratoren und redundanter Aufbau des Portals
- 2001 – 2005 DFG/NSF-Projekt „OAD“ Anreicherung der Suche nach Self-archived OA-Dokumenten mit denen in Institutional OA Repositories

Was ist PhysNet? Netzwerk


- Verteilte Datenpflege (Informationen von über fast alle Physik-relevanten Institutionen weltweit) kann nur lokal erfolgen
 - Netzwerke von Administratoren essentiell
 - Technische Entwicklung ist der Motor
 - Jährlich ein Workshop der Administratoren hält das „Team“ zusammen.
 - Hauptproblem: Sponsoren für die Reisekosten zu finden, denn PhysNet ist ein weltweiter Dienst...

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- Virginia Tech, USA
- University of Bayreuth, Germany
- eprints.org, UK
- Russian Academy of Science, Chernogolovka, Russia
- CCSD-CNRS, Lyon, France
- Institute for Plasma Research, Gujarat, India
- Polish Physical Society, Warsaw, Poland
- ftw, Forschungszentrum Telekommunikation Wien, Austria
- Institute of Physics, Praha, Czech Republic
- KFKI Research Institute for Particle and Nuclear Physics, Budapest, Hungary
- Istituto di Biofisica, Palermo, Italy
- Université de Haute Alsace - UHA, Mulhouse-Colmar, France

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Physics Departments Worldwide

PhysDep - Physics Departments Worldwide - offers lists of links to worldwide distributed physics institutions, such as institutes and departments at universities, ordered by continent, country and town.



Click on the map →
or select a country in the list below

- Africa (35)
- Asia (297)
- Australia and Oceania (36)
- Europe (666)
- North America (517)
- South America (97)

→ Albania (1)	→ Croatia (7)	→ Iran (9)	→ Namibia (1)	→ Spain (40)
→ Algeria (1)	→ Cuba (1)	→ Ireland (12)	→ Nepal (1)	→ Sri Lanka (6)
→ Argentina (14)	→ Cyprus (1)	→ Israel (7)	→ Netherlands (19)	→ Sweden (21)
→ Armenia (3)	→ Czech Republic (13)	→ Italy (61)	→ New Zealand (6)	→ Switzerland (14)
→ Australia (27)	→ Denmark (15)	→ Jamaica (1)	→ Norway (5)	→ Taiwan (15)
→ Austria (15)	→ Ecuador (4)	→ Japan (44)	→ Pakistan (5)	→ Tanzania (1)
→ Bangladesh (2)	→ Egypt (7)	→ Jordan (2)	→ Palestine (2)	→ Thailand (9)
→ Barbados (1)	→ El Salvador (1)	→ Kazakhstan (1)	→ Panama (2)	→ Turkey (25)

http://www.uni-bayreuth.de/PhysNet/physdep.html

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German Physics Departments

Goto ...

Please scroll down to browse through the list of Physics Institutions in Germany or use the search engine to search for information on WWW-Servers of the listed Institutions.

Search for information on Physics Departments' servers

Examples:
einstein - to find sites about "Einstein" and "Albert Einstein" and "Einstein, Albert"
albert AND einstein - to find sites about "Albert Einstein" and "Einstein, Albert"
albert einstein - to find sites about "Albert Einstein"

top ↑

- [Deutsche Gesellschaft für Akustik e.V. \(DEGA\)](#)
- [Deutsche Physikalische Gesellschaft \(DPG\)](#)
- [Helmholtz-Gemeinschaft \[Chinese\] \[German\] \[Russian\]](#)
- [Max Planck Society \(MPG\) \[English\]](#)

Aachen

Fertig Internet

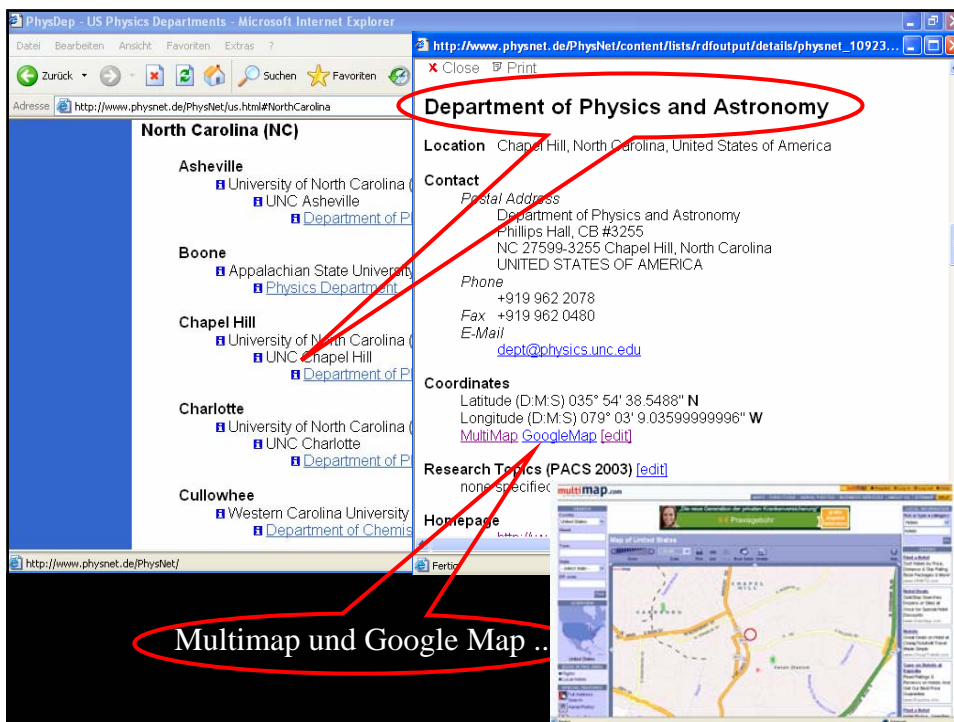
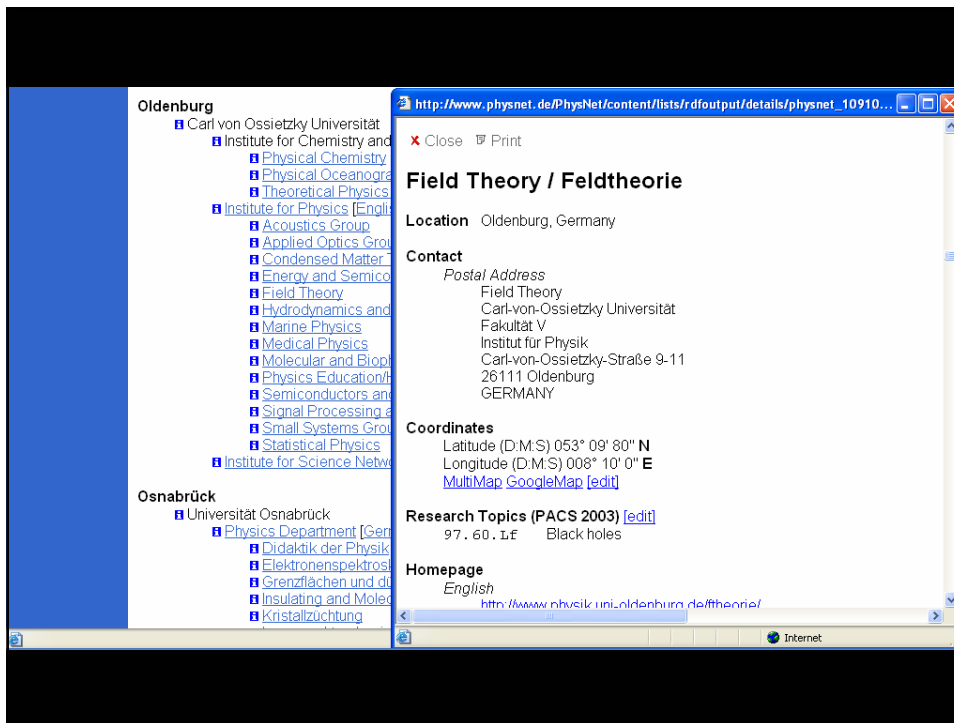
Oldenburg

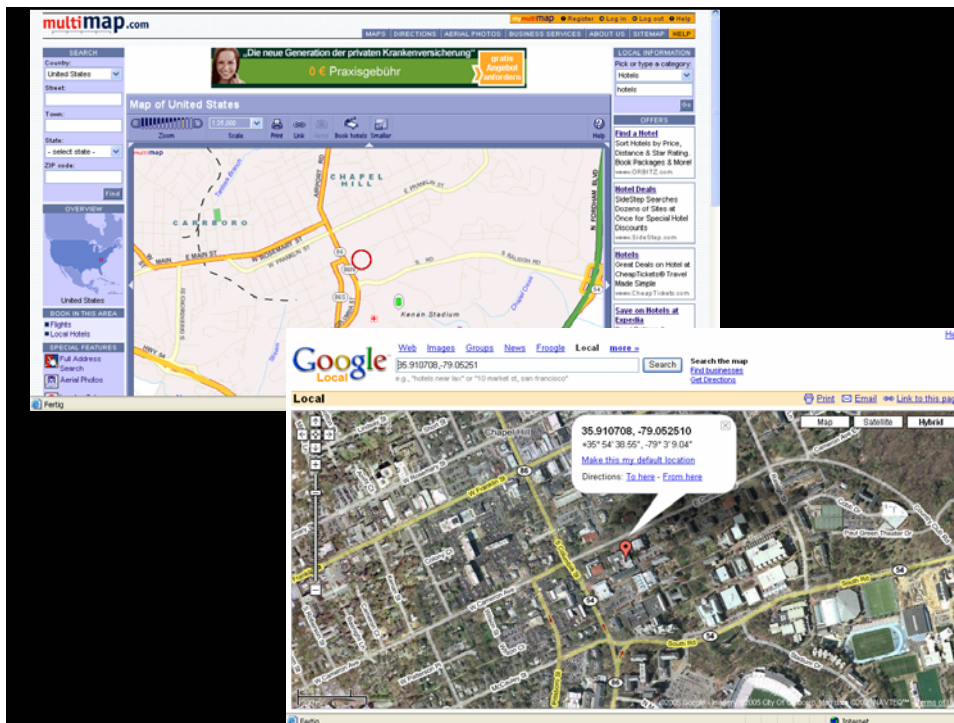
- [Carl von Ossietzky Universität](#)
 - [Institute for Chemistry and Biology of the Marine Environment](#)
 - [Physical Chemistry \[German\]](#)
 - [Physical Oceanography \(Theory\)](#)
 - [Theoretical Physics / Complex Systems](#)
 - [Institute for Physics \[English\]](#)
 - [Acoustics Group](#)
 - [Applied Optics Group](#)
 - [Condensed Matter Theory](#)
 - [Energy and Semiconductor Research Laboratory \(EHF\) \[German\]](#)
 - [Field Theory](#)
 - [Hydrodynamics and Wind Energy \[German\]](#)
 - [Marine Physics](#)
 - [Medical Physics](#)
 - [Molecular and Biophysics](#)
 - [Physics Education/History and Philosophy of Science](#)
 - [Semiconductors and Radiation Conversion](#)
 - [Signal Processing and Communications](#)
 - [Small Systems Group](#)
 - [Statistical Physics](#)
 - [Institute for Science Networking \(ISN\) \[English\]](#)

Osnabrück

- [Universität Osnabrück](#)
 - [Physics Department \[German\] \[Russian\]](#)
 - [Didaktik der Physik](#)
 - [Elektronenspektroskopie](#)
 - [Grenzflächen und dünne Schichten](#)
 - [Insulating and Molecular Nanostructures](#)
 - [Kristallzüchtung](#)

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Mehrwert und sein Preis

- Fachklassifikation von Arbeitsgruppen erlaubt inhaltliche Clusterbildung von Wissenschaftlern und Ressourcen
- Portal als Mehrwert-Dienst verstehen und betreiben
- Kontinuität in
 - Betrieb
 - Weiterentwicklung

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Besten Dank für Ihre Aufmerksamkeit!