

# PhysNet: Information about Physics Institutions

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# www.physnet.net

The screenshot shows the PhysNet website homepage. The header features the PhysNet logo and the tagline "the physics departments and documents network". A navigation menu on the left includes links for PhysNet, PhysDep, PhysDoc, PhysTopics, Journals, Conferences, PhysJobs, Education, Links, Services, and Upload Form. The main content area welcomes visitors to the worldwide Physics Departments and Documents Network, accompanied by a world map and the URL www.physnet.net. Below the map, it lists "Official Mirrors of PhysNet" with a dropdown menu for selection. The right sidebar contains several sections: a "New!" announcement about cooperation with The Physics Virtual Library, a "PhysTopics" section for finding colleagues and institutions, and a "PhysNet Ontology" section about a semantic RDF database.

**PhysNet**  
the physics departments and documents network

about PhysNet | the PhysNet-crew | how to contribute? | statistics | what's new?

**PhysNet**  
**PhysDep**  
**PhysDoc**  
**PhysTopics**  
Journals  
Conferences  
**PhysJobs**  
Education  
Links  
Services  
Upload Form

Welcome to **PhysNet** the worldwide  
Physics Departments and Documents Network



www.physnet.net

Official [Mirrors](#) of PhysNet:

Please select one of the global Mirror-Server of PhysNet

**New!** Cooperation established  
**PhysNet** and the **The Physics Virtual Library** are closely cooperating to present the **PhysTopics** service.

**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, online Resources 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 **i** buttons in the lists.

Internet 100%

# Offered Services

- **PhysDep:** Information on 1755 institutions
- **PhysDoc:** OpenAccess Physics publications
- **PhysTopics:** Access to institutions, societies, services, publication-repositories, learning material, etc. by subject (PACS)
- **Journals:** OA gold journals + EPS recognized journals
- **Conferences, PhysJobs, Education, Links, Services, Upload Form**

# PhysDep

- „Complete“ Information on European, US Institutions (nearly complete for the rest of the world) including:
  - URL
  - Postal address, phone- and fax-numbers etc.
  - Geo-location
  - Publication repositories
- mostly on working group granularity... including PACS information on the field of work
- Update-Sources: Upload form (push by institutions) or information crawler (pull from homepages), but always: manual maintenance!

# PhysDoc

- Browse and search for self archived publications on
  - Publication lists of workinggroups (and individual scientists)
  - Publications in institutional repositories
- Since January 2009 under construction:
  - Better search performance
  - Subject specific search (PACS)
  - Real fulltext retrieval

# Which topic is your publication about?

- (This work is part of DFG funded project OA Network and of EU FP7 project EERQI)
- Take a collection of publications, which are classified by librarians along a classification
- Compute a „finger print“ of 3-word-tuples relevant for every field in the classification
- Compare the 3-word-tuples of every document with all finger prints and...
- We already can do this successfully for DDC! Will it work for PACS also?

# Subject-Recognition (#2)

- Yes, it will!
  - Because we have enough documents for training, thanks to those scientists, who love to publish OA!
- What is the research topic of a group?
  - If we know the PACS number for their publications...
  - Linking between research groups (which is implemented in PhysTopics already)

# Progress

- PhysNet is being developed since 1995 (starting from list of links to Physics Departments in Germany)
- 1.5 students for maintenance of the content and facts (1.3 million facts stored in an RDF network) + 0.5 student for technical development (supported by EPS)
- Many EU, national or regional projects, which gave and give boosts to the development.



# How to continue?

- Every Physicist should use the PhysNet him/herself,
- Contact your national societies, tell them and their members about this EPS service,
- Send us (ISN) corrections or additions, if you miss something or find errors,
- ISN will continue developing and maintaining the service.