

PhysNet: Information about Physics Institutions

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www.physnet.net

The screenshot shows the PhysNet website homepage. At the top left is the PhysNet logo, and at the top right is the tagline "the physics departments and documents network". Below the tagline are navigation links: "about PhysNet | the PhysNet-crew | how to contribute? | statistics | what's new?". On the left side, there is a vertical menu with buttons for "PhysNet", "PhysDep", "PhysDoc", "PhysTopics", "Journals", "Conferences", "PhysJobs", "Education", "Links", "Services", and "Upload Form". The main content area features a welcome message: "Welcome to PhysNet the worldwide Physics Departments and Documents Network", followed by a world map and the URL "www.physnet.net". Below the map, it says "Official Mirrors of PhysNet:" and includes a dropdown menu with the text "Please select one of the global Mirror-Server of PhysNet". On the right side, there are three sections: "Cooperation established" (with a "New!" icon) stating that PhysNet and The Physics Virtual Library are cooperating; "PhysTopics" which offers an overview of institutions and resources; and "PhysNet Ontology" which mentions a semantic RDF database. The browser's status bar at the bottom shows "Internet" and "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.