



PhysNet and its Mirrors

- the project SINN -

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SINN03, Oldenburg, 17.-19.09.2003

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department of physics

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PhysNet Newsletter

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CALL FOR PAPERS

The **SINN03 conference** on "Worldwide Coherent Workforce, Satisfied Users" will take place in Oldenburg (Germany) from Sep. 17-19th 2003.

related portals

- MareNet
- Math-Net
- Chemie.DE
- AstroWeb
- CiteBase
- Fachwelt-Physik

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SINN is a project within the DFN-program 'Einsatz von Netzdiensten im Wissenschaftlichen Informationswesen', supported by the German Academic Network Organisation (Deutsches Forschungsnetz - DFN), with the financial support of the German Ministry of Education and Research (Bundesministerium für Bildung und Forschung - BMBF) and the Government of Lower Saxony.

Start/End: 1. Feb 2001 - 31. Oct 2003

The aim of the project is to enhance the distributed information system PhysNet to a fast and secure service by setting up a network of independent but cooperating Harvest-brokers and Harvest-gatherers and building a network of PhysNet-mirrors.

New: [Proposed Specification of a Distributed XML-Query Network](#)

www.isn-oldenburg.de/projects/SINN

The project SINN is supported by the [German Research Network Organisation](#), with funds of the [German Ministry of Education and Research \(BMBF\)](#) and of the [Government of Lower Saxony](#).



The Project SINN

- supported by the German Research Network (DFN-Verein)
- financial support of German Ministry of Education and Research (bmb+f) and the Government of Lower Saxony
- cooperation with international partners of PhysNet
- February 2001 – October 2003

Tasks

- set up an active network of PhysNet mirrors
- develop a language for data exchange (based on XML-Query)
- develop a XML-protocol for communication between distributed search engines
- collaborate in the W3C X-Query Group
- set up the distributed search engine network
- intensify distributed workforce, improve the service

PhysNet Mirrors

- **15 mirrors spread around the world:**
 - France (2), UK, USA, India, Hungary, Poland, Czech Republic, Russia, Italy, Austria, Swiss, Mexico, Germany (2)
- **easy to install, Perl 5 script available at**
<http://de.physnet.net/PhysNet/bin/newbuild.pl>
- **mirroring of all PhysNet websites and configuration files for search engines**
- **daily update**

PhysNet

PhysNet

- the worldwide Network of Physics Departments and Documents -

PhysNet offers country-wise lists of Physics departments and institutes, lists of documents, online literature, preprints, research reports etc., freely available Physics journals, conferences, jobs and other services.

Your nearest PhysNet mirror is located at:

de.physnet.net

You should be forwarded automatically after 8 seconds

The following PhysNet mirrors are currently online and up-to-date:

- de.physnet.net : Institute for Science Networking, Oldenburg, Germany
- www.uni-bayreuth.de : University of Bayreuth, Germany
- pl.physnet.net : Polish Physical Society, Warsaw, Poland
- ccsd.cnrs.fr : CCSD-CNRS, Lyon, France
- hu.physnet.net : KFKI Research Institute for Particle and Nuclear Physics, Budapest, Hungary
- www.physnet.ru : Scientific Center in Chernogolovka, Russia
- cz.physnet.net : Institute of Physics, Praha, Czech Republic
- physnet.eprints.org : Southampton, UK
- fr.physnet.net : Université de Haute Alsace - UHA, Mulhouse-Colmar, France
- at.physnet.net : fbw. Forschungszentrum Telekommunikation Wien, Austria
- www.iaif.pa.cnr.it : Istituto per le Applicazioni Interdisciplinari della Fisica, Palermo, Italy
- www.eps.org : EPS Server, Lausanne, Swiss
- www.fata.unam.mx : Centro de Física Aplicada y Tecnología Avanzada, UNAM, Mexico
- www.phys.mt.edu : Virginia Tech, USA

Availability of the mirrors is automatically checked every 5 minutes.

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PhysNet mirror via [Institute of Physics, Praha, Czech Republic](#)

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WYP 2005

The EPS
announces
the **World
Year of Physics
2005**



PhysNet Core

PhysNet got a new
core server, which is
available at
www.physnet.net
and will forward users
automatically to the
fastest mirror,
depending on the
location of the user
and availability and
up-to-dateness of the
mirror servers.

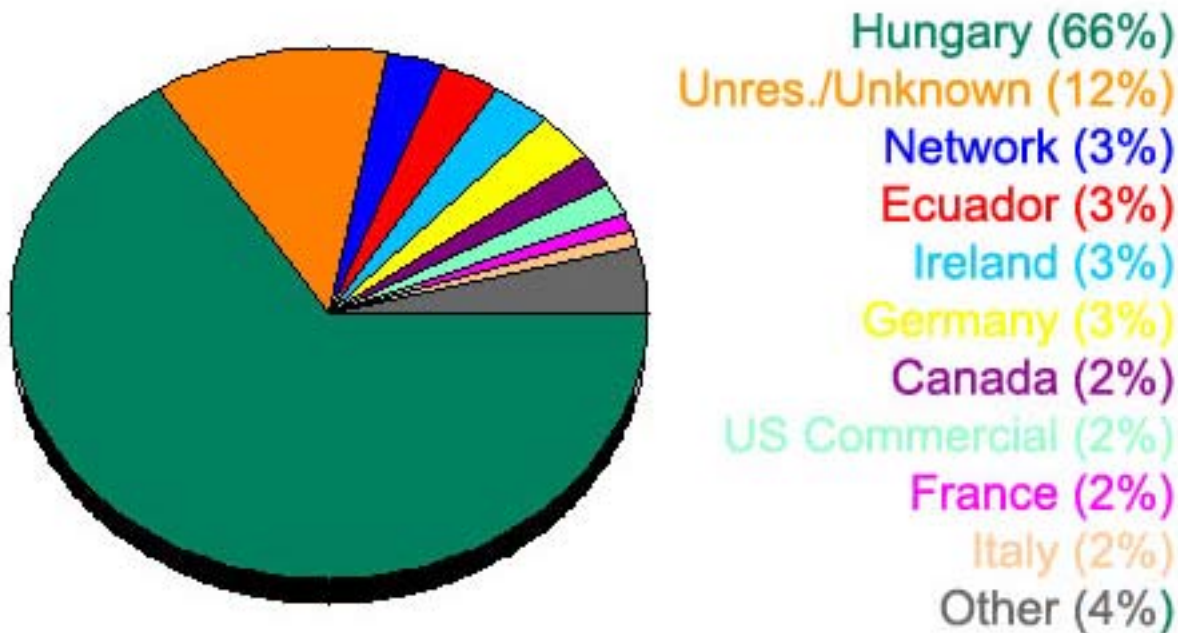
related portals

- ➔ MareNet
- ➔ Math-Net
- ➔ Chemie.DE
- ➔ AstroWeb
- ➔ CiteBase
- ➔ Fachwelt-Physik

Mirror	%	Avg hits per day in the last 306 days
de.physnet.net	71.2%	550.8
physnet.eprints.org	10%	77.7
www.eps.org	5.2%	40.5
www.physnet.ru	2.6%	20.6
pl.physnet.net	2.1%	16.6
www.ccsd.cnrs.fr	1.9%	14.9
www.phys.vt.edu	1.6%	12.7
cz.physnet.net	1.4%	11.2
www.uni-bayreuth.de	1.3%	10.7
hu.physnet.net	0.9%	6.9
at.physnet.net	0.3%	3
www.iaif.pa.cnr.it	0.3%	2.8
in.physnet.net	0.2%	1.7
fr.physnet.net	0.1%	1
fata.unam.mx	0%	0.4

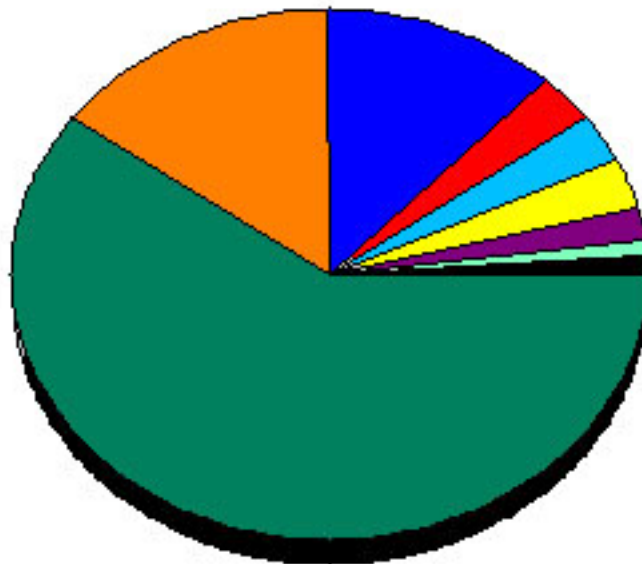
hu.physnet.net

Usage by Country for June 2003



pl.physnet.net

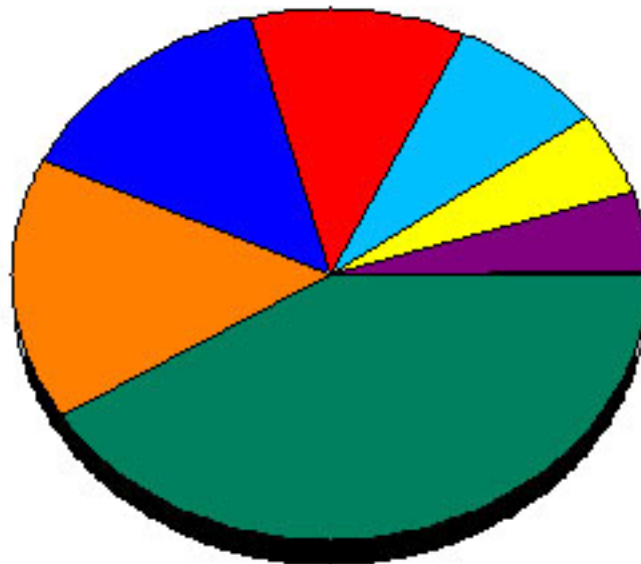
Usage by Country for June 2003



Poland (60%)
Italy (15%)
Unres./Unknown (12%)
Non-Profit Org. (3%)
Sweden (3%)
Network (3%)
Germany (2%)
Belgium (1%)
Other (1%)

fr.physnet.net

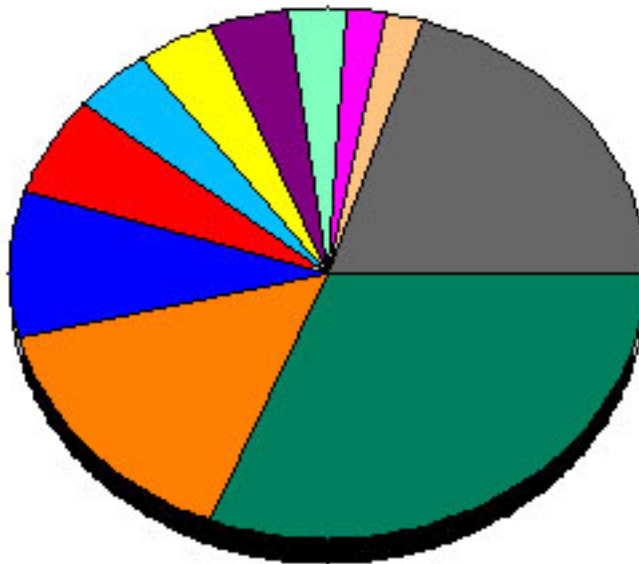
Usage by Country for June 2003



France (41%)
US Comercial (16%)
Germany (14%)
Network (11%)
Inresolved/Unknown (6%)
Spain (5%)
Netherland (5%)

www.eps.org/PhysNet

Usage by Country for June 2003

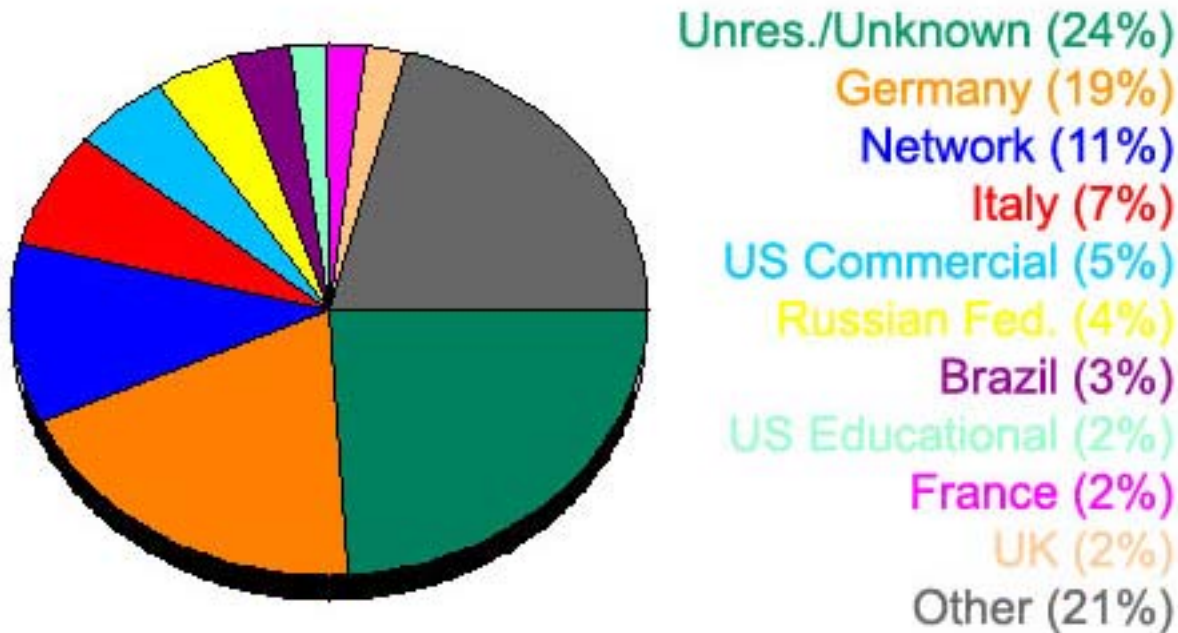


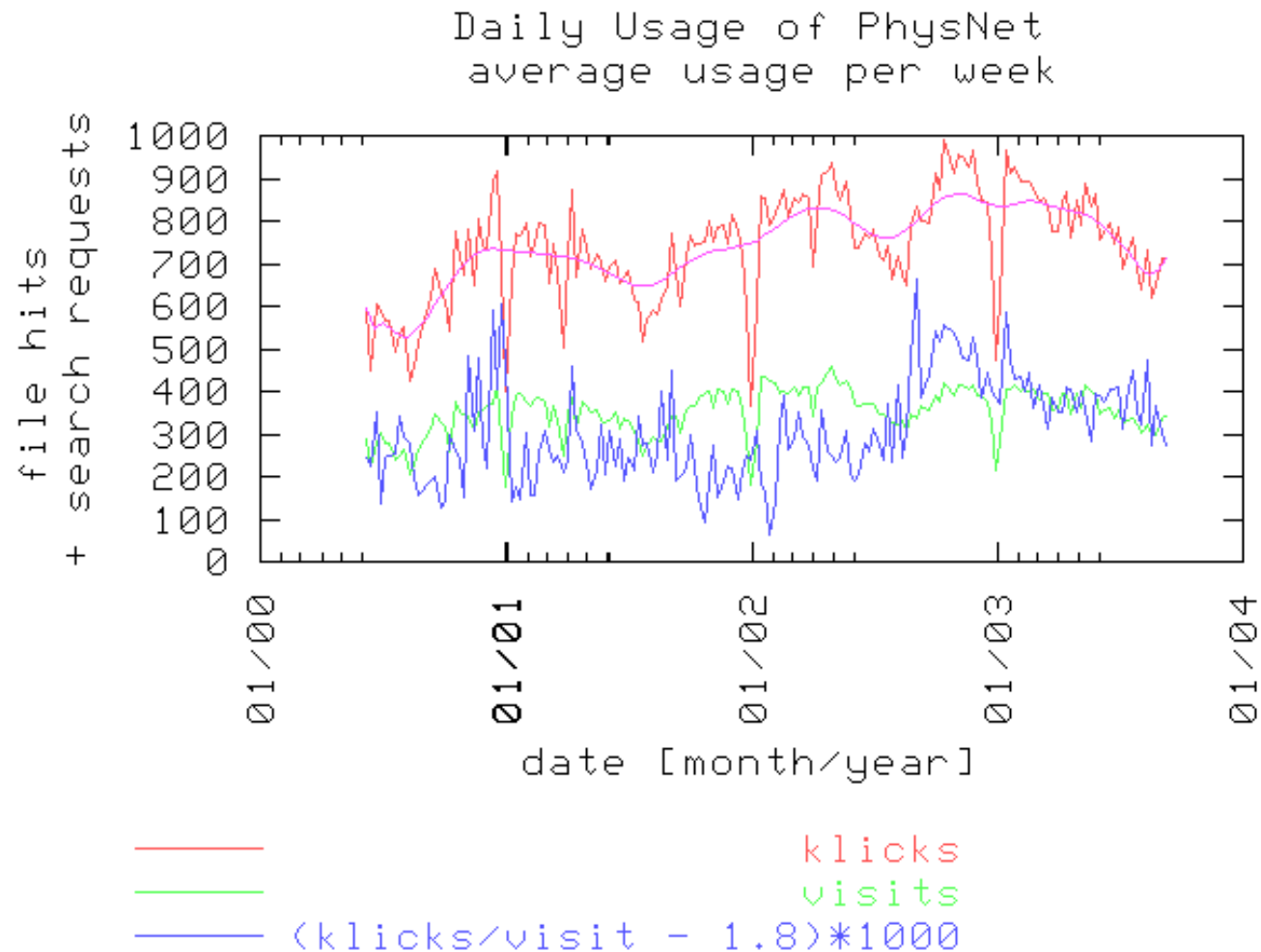
Unres./Unknown (31%)
Network (15%)
US Commercial (9%)
Russian Fed. (6%)
US Educational (4%)
Germany (4%)
United Kingdom (4%)
Switzerland (3%)
Hungary (2%)
Italy (2%)
Other (20%)

de.physnet.net

(physics-networks.org)

Usage by Country for June 2003





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Searchresults for:

Fulltext: einstein

856 Results

- Title: **Bose-Einstein-Kondensation in magnetischen und optischen Fallen**
 Author: Jens Harting harting@merlin.physik.uni-oldenburg.de (TYPE=phone)+49 441 798-3467 (TYPE=fax)+49 441 798-3201
 URL: http://www.smallsystems.de/publications/metadocs/harting_dipl.html
 Host: www.smallsystems.de
 Keywords: abstract april author bec bose copyright date dipl diplom docs done einstein fallen files harting html http index jens keywords kondensation magnetischen masterthesis metadata metatags oldenburg optischen ...
 Description: Bose-Einstein-Kondensation in magnetischen und optischen Fallen
 (found by [PhysWorld](#))
- Title: **Classification of phase transitions of finite Bose-Einstein condensates in power law traps by Fisher zeros**
 Author: Oliver Muelken muelken@uni-oldenburg.de (TYPE=phone)+49-(0)441-798-3467 (TYPE=fax)+49-(0)441-798-3201 Peter Borrmann borrmann@uni-oldenburg.de (TYPE=phone)+49-(0)441-798-3362 (TYPE=fax)+49-(0)441-798-3201 Jens Harting harting@uni-oldenburg.de (TYPE=phone)+49-(0)441-798-3467 (TYPE=fax)+49-(0)441-798-3201 Heinrich Stamerjohannis stamer@uni-oldenburg.de (TYPE=phone)+49-(0)441-798-3467 (TYPE=fax)+49-(0)441-798-3201
 URL: <http://www.smallsystems.de/publications/metadocs/bosezeros.html>
 Host: www.smallsystems.de
 Keywords: abs abstract affiliation article authors borrmann bose canonical classification complex cond condensates condensation date done einstein ensemble files finite fisher gov group harting heinrich http jens ...
 Description: Classification of phase transitions of finite Bose-Einstein conden...
 (found by [PhysWorld](#))
- Title: **Bose-Einstein-Kondensation**
 URL: <http://www.physik.uni-stuttgart.de/institute/pi/5/lehre/hauptseminar2000/bec/index.html>
 Host: www.physik.uni-stuttgart.de

User Acceptance

- Upgrade of search engines
 - new ranking algorithm
 - result output improved
 - revised MetaMaker-Tools for documents and for websites of institutions

- several mailing campaigns

- PhysNet-Newsletter available

Distributed Workforce

- international collaboration regulated by PhysNet Charter
- signed by several national societies, institutions and individual scientists
- global distributed PhysNet-Team
- Workshops to jointly design and set up the mirror-network

Thank you!

Any questions?