

What's new on PhysNet ?

SINN02

2nd international technical workshop of the project SINN
and conference on
Open distributed Science Information Management



PhysNet

PhysDep

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Journals

Conferences

PhysJobs

Education

Links

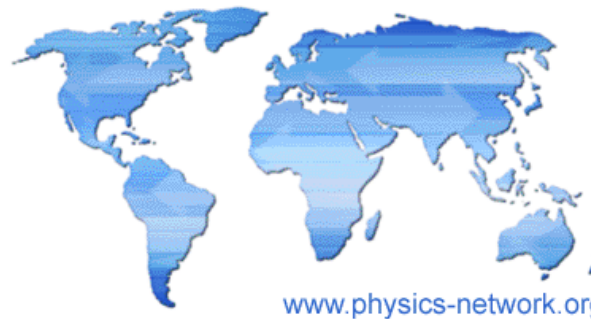
Services

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



www.physics-network.org

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Citebase

Evaluate Citebase,
a citation-ranked
search service
produced by a
project in conjunction
with arXiv.

What's New?

PhysNet has a new
layout. If you have any
problems, viewing
the PhysNet sites,
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PhysNet Charter

Please help PhysNet
to be a *permanent*,
up to date, *free for*
access service for
physicists by **signing**
the
PhysNet-Charter

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- [Chemie.DE](#)
- [AstroWeb](#)
- [CiteBase](#)
- [Fachwelt-Physik](#)

Search for Physics Documents:

Title:

Author:

Keywords or Classification:

Fulltext or Description:

Search in **whole** PhysDoc - The Physics Documents Network
 MPRESS - The Mathematics Preprint Search System

Search in well structured (MetaData) **part** of
- PhysDoc - The Physics Documents Network
- Parts of arXiv - e-Print archive
- IOP

Slow but complete

,Quick-Search'
without ranking

about
50.000 documents

- Links
- Services
- Upload Form

et

the physics departments and documents network

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

Broker Query Results

Modify your query:

- [No Title](#)
www-ra.phys.utas.edu.au
tell us what sort of universe we live in. The brightest known radio Einstein was identified as an Einstein ring/gravitational lens (Jauncey et al. 1991) and remains the
- [ASU Physics & Astronomy | Research - Biophysics](#)
phyastweb.la.asu.edu
- [Experimentelle Physik](#)
wwwex.physik.uni-ulm.de
- [No Title](#)
wwwlapp.in2p3.fr
1.1.3 Equation d'Einstein 6
1.2.1 Linearisation de l'equation d'Einstein 7
*Tres vite apres l'elaboration de la theorie de la relativite gen erale, Einstein a mis en
Quelques mois apres l'elaboration de la theorie de la relativite gen erale, Einstein a montre*
- [DEPARTAMENT DE FISICA](#)
www.uib.es
- [No Title](#)
www.pr.infn.it
- [UNIVERSITA' DEGLI STUDI DELL' INSUBRIA SEDE DI COMO](#)

Search for Physics Documents:

Quick-Search

Title:

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 PhysDoc - The Physics Documents Network
 Parts of arXiv - e-Print archive
 IOP

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Searchresults for:
Fulltext: einstein

[MPress](#) gave 46 Results
[PhysDoc](#) gave 1334 Results

- Title: **Calculation of thermodynamic properties of finite Bose-Einstein systems**
 Author: Peter Borrmann borrmann@uni-oldenburg.de Jens Harting harting@uni-oldenburg.de Oliver Muelken muelken@uni-oldenburg.de Eberhard R. Hilf hilf@merlin.physik.uni-oldenburg.de
 URL: <http://www.smallsystems.de/publications/metadocs/calculation.of.thermodynamic.html>
 Host: www.smallsystems.de
 Classification:
 - PACS: 03.75.Fi Phase coherent atomic ensembles; quantum condensation phenomena
 - PACS: 05.30.Jp Boson systems
 - PACS: 32.80.Pj Optical cooling of atoms; trapping

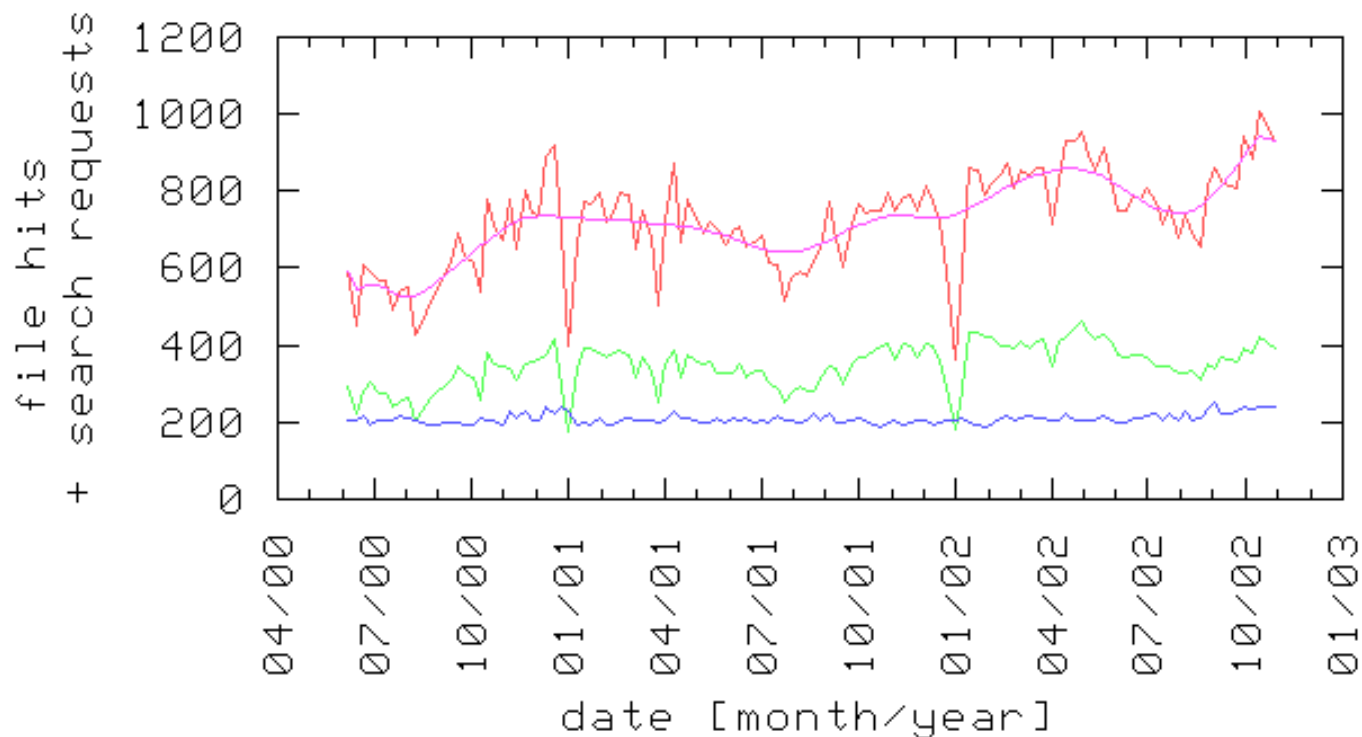
Keywords: Bose-Einstein Bose-Einstein-Condensation canonical ensemble recursion formula statistical physics finite systems thermodynamic properties (TYPE=acs96) 03.75.Fi Phase coherent atomic ensemble (Bose condensation) (TYPE=acs96) 05.30.Jp Boson systems (TYPE=acs96) 32.80.Pj Optical cooling of atoms trapping
 Description: like Bose-Einstein condensates in magnetic traps. The numerical (found by [PhysDoc](#))

- Title: **Phenomenology of phases: from nuclear multifragmentation to Bose-Einstein condensation**
 URL: <http://www.physik.uni-oldenburg.de/docserver/diss/metadocs/200200711161.html>
 Host: www.physik.uni-oldenburg.de
 Classification:
 - PACS: 05.70.Fh Phase transitions: general studies

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PhysDoc + MPRESS
 ranking implemented
 together nearly
 100.000 documents

Daily Usage of PhysNet
average usage per week



— klicks
— visits
— $klicks/visit*100$

maximum of search requests: **1141**/month
maximum of hits: **25670**/month
maximum of visits: **12747**/month

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Networking Oldenburg
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S N an der
Carl von Ossietzky Universität

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. Jan 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.

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](#).



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Tasks

- ➔ setting-up an active network of PhysNet-mirrors
- ➔ setting-up a distributed search-engine network
- ➔ development of a protocol for data exchange, based on XML-Query
- ➔ development of a protocol for query exchange, based on XML-Query
- ➔ XML for infrastructure-communication
- ➔ training of partners
- ➔ international standardization initiatives

Mirrors of PhysNet

www.physics-network.org

- ➔ EPS, Lausanne, Swiss www.eps.org/PhysNet/
- ➔ Physics Department of Virginia Tech, USA www.phys.vt.edu/PhysNet/
- ➔ Bayreuth University, Germany www.uni-bayreuth.de/PhysNet/
- ➔ eprints.org, UK physnet.eprints.org/PhysNet/
- ➔ Russian Academy of Science, Chernogolovka, Russia www.chg.ru/PhysNet/
- ➔ CCSD-CNRS, Lyon, France ccsd.cnrs.fr/PhysNet/
- ➔ Institute for Plasma Research, Bhat, India www.plasma.ernet.in/PhysNet/
- ➔ NIKHEF, Amsterdam, Netherlands www.nikhef.nl/PhysNet/
- ➔ Polish Physical Society, Warsaw, Poland ptf.fuw.edu.pl/PhysNet/
- ➔ ftw. Vienna ptf.fuw.edu.pl/PhysNet/
- ➔ Institute of Physics, Praha, Czech Republic ptf.fuw.edu.pl/PhysNet/
- ➔ KFKI, Budapest, Hungary ptf.fuw.edu.pl/PhysNet/

Usage of PhysNet Mirror Servers

Mirror	%	Avg hits per day in the last 77 days
physics-network.org	79.9%	666.8
physnet.eprints.org	6.9%	57.8
www.eps.org	3.9%	33.1
www.chg.ru	1.8%	15
www.ccsd.cnrs.fr	1.7%	14.8
ptf.fuw.edu.pl	1.3%	10.9
www.uni-bayreuth.de	1.1%	9.2
www.phys.vt.edu	1%	9.1
www.fzu.cz	0.7%	6
www.nikhef.nl	0.6%	5.6
userver.ftw.at	0.3%	2.7
www.plasma.ernet.in	0.1%	1.2
www.physnet.hu	0.1%	1

SINN01 in December 2001

- ➔ requirements for the mirror-script
- ➔ synchronisation of regional Broker and Gatherer
- ➔ list with alternative Brokers (if a Broker fails)
- ➔ exchange of Broker- and Gatherer-configuration-files (via mirroring)

International activities

➔ W3C-Working-Group „XML-Query“

- development of XML-protocol for linking real and virtual documents
- definition of ‚virtual document collections‘
(like the PhysNet-search-engines are)
- query-rooting or index exchange

➔ Open Archives initiative (OAI)

- XML-protocol for exchange of MetaData between archives
- Index-exchange, not query rooting!
- directly involved with the OAD-project

SINN02: Technical Workshop

Summarize of Wednesday and Thursday

- ➔ Presentation of mirrors and harvest system in different countries, their experience and the difficulties they met (ex: problem of encoding)
- ➔ Some suggestions have been given to offer other services to users.

Summary of technical Workshop

- ➔ a ToDo-List for Harvest 2.0 was presented
- ➔ It was discussed how to organise and motivate people, in order to contribute and divided the tasks (ex: translation in other languages, programming nice interfaces, etc...).
- ➔ Also to promote the system in each countries of the participants, to be better known by the end users.

Summary of technical Workshop

- ➔ An alternative to Harvest - mnoGoSearch - was also been given to us by the Hungarian but it wasn't develop.
- ➔ It was also reported about the possibilities to perform the PhysNet-system, in the main to make the results output of the search-engines more significant by implementing a ranking or a sorting process.

Final Results

- ➔ Local search-engines for departments will be available in France and Poland next year as well as a new mirror in Lithuania
- ➔ All local available search-engines should be include into the respective country-lists of PhysDep and PhysDoc.
- ➔ It was decided to use Harvest in the future and offer the PhysNet-system as a testbed for new versions of Harvest.