DPHEP@INSPIRE

What have we done?
What are we doing?
What can we do?

Travis Brooks (SLAC)

Zaven Akopov (DESY)

INSPIRE & Data Preservation

- Was ist INSPIRE?
- Features
- DESY Bibliothek -> Inspire

INSPIRE Features

- **Leistungsstarke Suchmaschine**
  - Google-ähnliche Geschwindigkeit bis zu 2M records
  - Kombinierte Suche über Metadaten, Referenzen, Volltext
- **Sehr gute Skalierbarkeit**
- **Flexible Metadaten**
  - Multimedia, usw.
- **Personalisierung, collaborative features**
  - Gruppen, Reviews, Kommentare, baskets, alerts
  - User accounts
- **Umfassende HEP-Informationsplattform**
- **Volltext-Repositorium**
- **Web2.0 Anwendungen**
- **Integration von Forschungsdaten**

INSPIRE <-> DESY

- **DESY Tasks**
  - Zeitschriften/Data input
  - HEP Taxonomie (Schlagwörter) Pflege/Eingabe
  - Hierarchie von HEP Konzepten
    - aus DESY HEP Thesaurus entstanden
    - DESY klassifiziert HEP Artikel seit 1964
  - DESY Inspire Mirror (inspire.desy.de)
- **Zeitplan**
  - Sommer 2009 (done)
    - Workflow-Steuerungssystem
    - Interface für Nutzerkorrekturen
    - Belastungstests
  - Herbst/Winter 2009
    - Inspire-Alpha User Interface Release
    - Inspire-Alpha Back-End Tools
- 2010 (Sommer)
  - beta complete – initial testing and feedback - Angefangen

Where do HEP scientists look for info?

arXiv 39.7%
CDS 2.6%
ADS 0.7%
Library services 0.2%
Google 7.9%
Google scholar 0.7%
Commercial databases 0.1%
Spires 48.2%
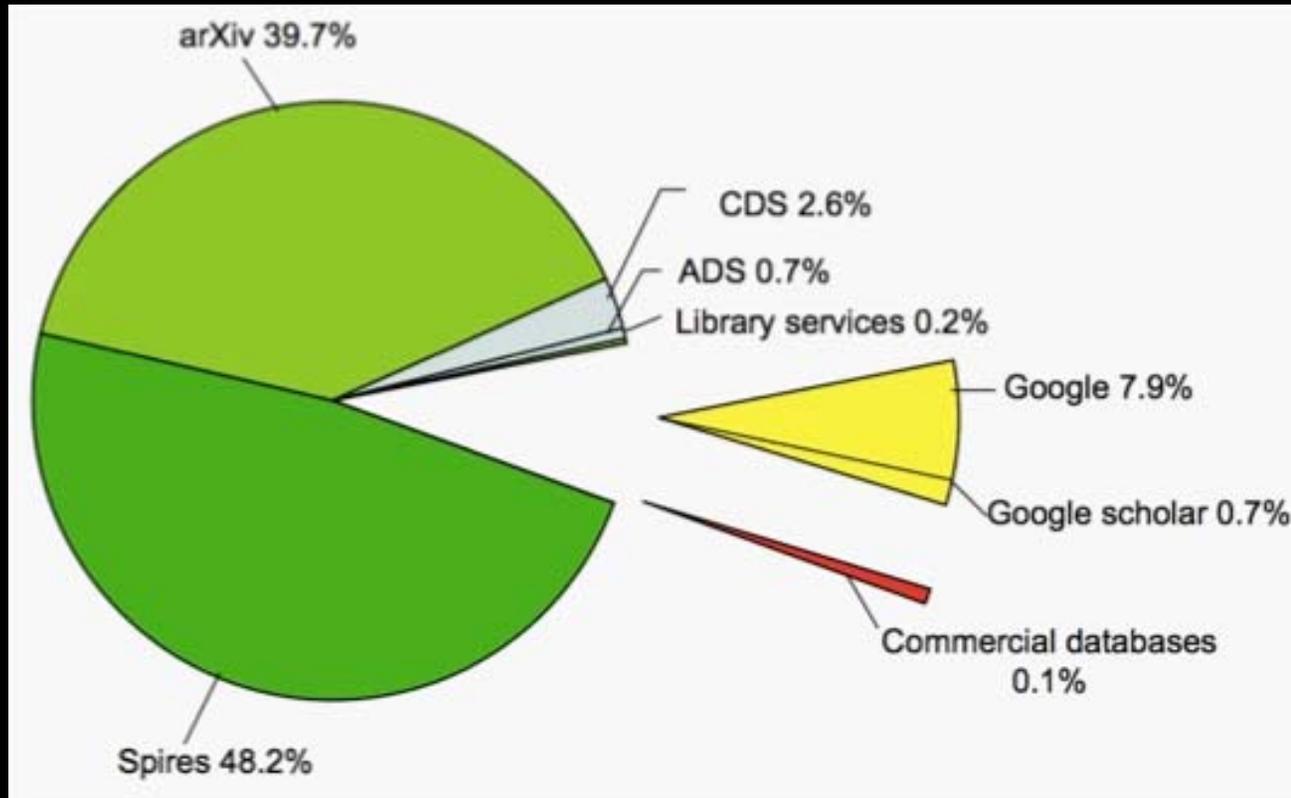
Survey of 2,000+ Physicists in 2007

"Contains all relevant (and virtually no irrelevant) material, and has a simple-to-use interface."

"Comprehensive information (affiliation of the authors, citation tracking, link to published version, etc)"

October 2010:
INSPIREbeta goes live
Recommended as SPIRES replacement

inSPIRE β

HEP :: **HELP** ..::.. **SPIRES** **HEPNAMES** :: **INST** :: **CONF** :: **EXP** :: **JOBS**

Use "find " for SPIRES-style search (other tips)

[   ] [Search]   Search Tips
                                                         Advanced Search

find j "Phys.Rev.Lett.,105*" :: more

HOW TO SEARCH

SPIRES syntax is (mostly) supported (requires "find")

   find a richter, b and t quark and date > 1984
   find j phys.rev.,D50,1140 or j jhep,0903,112
   find eprint arxiv:1007.5048 (Note the plots available on the detailed record)
   find fulltext "quark-gluon plasma" (Note new "fulltext" operator)
   find a ellis and refersto a witten (Note "refersto")
   find a kane and citedby title SUSY and topcite 200+ (Note "citedby")

New techniques:

   1985 richter quark multiplicity
   arXiv:1007.5048

HEP

Search Tips
INSPIRE Help
Corrections
Additions
Email Us

INSPIRE

About INSPIRE
Recent topcites
HEP Reviews
symmetry breaking

RESOURCES

arXiv
HEPDATA
PDG

find fulltext "quark-gluon plasma"

Search

find j "Phys.Rev.Lett.,105*" :: more

Sort by:

| latest first ▼ | desc. ▼ | – or rank by – ▼ |

Display results:

| 25 results ▼ | single list ▼ |

Output format:

| HTML brief ▼ |

Warning: full-text search is only available for a subset of papers mostly from 2006-2011.

HEP **2,320** records found 1 - 25 ▶ ▶▶ jump to record: `1`   Search took 0.49 seconds.

1. **Wilson loops in (p+1)-dimensional Yang-Mills theories using gravity/gauge theory correspondence.**
Somdeb Chakraborty, Shibaji Roy. Mar 2011. 16 pp.
e-Print: **arXiv:1103.1248 [hep-th]**

References | BibTeX | LaTeX(US) | LaTeX(EU) | Harvmac | EndNote
Abstract and Postscript and PDF from arXiv.org

Snippets courtesy of arXiv
... 6, 7, 8]. In strongly coupled gauge theories of interacting **quark-gluon plasma** Wilson loops can be related to various measurable quantities in...
... to the static quark-antiquark potential [9] in a moving **quark-gluon plasma** On the other hand the expectation value of a particular...
... a dipole moving with an arbitrary velocity through the hot **quark-gluon plasma** including the screening length 11 12 13 14 as well...
... v . In this frame the dipole is static and the **quark-gluon plasma** is moving with velocity v in the negative xp direction...

← → C ⌂ | ⊙ inspirebeta.net/search?ln=en&ln=en&p=find+fulltext+"quark-mixing+matrix"+and+topcite+50->100&action_search=Searc... ☆ 🌼 🌼 ◉ ⬩

find fulltext "quark-mixing matrix" and topcite 50->100   [Search]   Search Tips
                                                                        Advanced Search
find j "Phys.Rev.Lett.105*" :: more

Sort by: Display results: Output format:
[latest first ▼] [desc. ▼] [– or rank by – ▼] [25 results ▼] [single list ▼] [HTML brief ▼]

Warning: full-text search is only available for a subset of papers mostly from 2006-2011.

HEP   **12** records found   Search took 39.42 seconds.

1. **Improved measurement of the CKM angle γ in $B^{\mp} \to D^{(*)} K^{(*\mp)}$ decays with a Dalitz plot analysis of D decays to $K_S^0 \pi^+ \pi^-)$ and $K_S^0 K^+ K^-)$.**
BABAR Collaboration (Bernard Aubert (Annecy, LAPP) *et al.*). SLAC-PUB-13209, BABAR-PUB-08-006. Apr 2008. 22 pp.
Published in **Phys.Rev. D78 (2008) 034023**
e-Print: **arXiv:0804.2089 [hep-ex]**

References | BibTeX | LaTeX(US) | LaTeX(EU) | Harvmac | EndNote
Abstract and Postscript and PDF from arXiv.org
Journal Server
SLAC Document Server

Snippets courtesy of arXiv
... Standard Model (SM) the phase in the CabibboKobayashi-Maskawa (CKM **quark-mixing matrix** 1 is the sole source of CP violation in the...
... to account for potential ΔE peaking background, although we **find** no significant peaking structure in any of our

inspirebeta.net/author/S.Bethke.1

Bethke, S. (605 papers)

This is me. Verify my publication list.

Name variants

Bethke, S. (547)
Bethke, Siegfried (53)
Bethke, S (3)
Bethke, S., (ed.) (1)
Bethke, Sigfried (1)

Papers

All papers (605)
Published (539)
Conference (44)
Review (28)
Introductory (2)
Thesis (2)
Lectures (1)
Book (1)

Affiliations

unknown affiliation (458)
Heidelberg U. (75)
Munich, Max Planck Inst. (36)
Aachen, Tech. Hochsch. (18)
Heidelberg, Max Planck Inst. (13)
LBL, Berkeley (4)
Muenchen MPI Phys. (1)
CERN (1)
UC, Berkeley (1)

Frequent co-authors

Duerdoth, I.P. (481)
Loebinger, F.K. (481)
Kobayashi, T. (462)
von Krogh, J. (458)

Person Search

bethke   [Search]

1. Bethke, Sigfried   Bethke, Siegfried   Bethke, S.
   ⊟ *Recent Papers*   *Publication List (S.Bethke.1)*

   Showing the 5 most recent documents:

   - **Measurements of underlying-event properties using neutral and charged particles in pp collisions at 900 GeV and 7 TeV with the ATLAS detector at the LHC**
     ATLAS Collaboration (Georges Aad (Freiburg U.) *et al.*).

   - **Search for stable hadronising squarks and gluinos with the ATLAS experiment at the LHC**
     ATLAS Collaboration (Georges Aad (Freiburg U.) *et al.*).

   - **Search for high-mass states with one lepton plus missing transverse momentum in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector**
     ATLAS Collaboration (Georges Aad (Freiburg U.) *et al.*).

   - **Search for Massive Long-lived Highly Ionising Particles with the ATLAS Detector at the LHC**
     ATLAS Collaboration (Georges Aad (Freiburg U.) *et al.*).

   - **Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in sqrt(s) = 7 TeV proton-proton collisions**
     Atlas Collaboration (Georges Aad (Freiburg U.) *et al.*).

Attribute papers for: S.Bethke.1

Navigation: Run paper attribution for another author

Names variants:

Bethke, Sigfried (1); Bethke, Siegfried (53); Bethke, S. (551);

| Papers (605) | Papers removed from this profile (0) |

Select All | Select None | Invert Selection | Hide successful claims

↳ | **Yes, those papers are by this person.** | **No, those papers are not by this person** | **Assign to other person** | **Forget decision**

Search: _____

	Paper Short Info	Author Name ⬍	Affiliation ⬍	Actions ⬍
☐	**Measurement of Dijet Azimuthal Decorrelations in pp Collisions at sqrt(s)=7 TeV** ATLAS Collaboration (Georges Aad (Freiburg U.) *et al.*).	Bethke, Siegfried	Heidelberg, Max Planck Inst.	✓ Yes, this paper is by this person. ✗ No, this paper is *not* by this person ➡ Assign to another person
☐	**Measurements of underlying-event properties using neutral and charged particles in pp collisions at 900 GeV and 7 TeV with the ATLAS detector at the LHC** ATLAS Collaboration (Georges Aad (Freiburg U.) *et al.*).	Bethke, Siegfried	Heidelberg, Max Planck Inst.	✓ Yes, this paper is by this person. ✗ No, this paper is *not* by this person ➡ Assign to another person
☐	**Search for high-mass states with one lepton plus missing transverse momentum in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector**	Bethke, Siegfried	Heidelberg, Max Planck Inst.	✓ Yes, this paper is by this person. ✗ No, this paper is *not* by this person

INSPIRE & Data Preservation

– HERA Daten weltweit einmalig, auf absehbare Zukunft unersetzbar

– Für nachhaltige Sicherung und Bereitstellung, potentielle Nachnutzung sind nicht nur die Daten und Auswerteprogramme zu erhalten, sondern auch vielfältige vorhandene Dokumentation nötig („technical guides", „Internal notes")

– … die Grundlage der zugehörigen Veröffentlichungen - aber substantiell mehr zusätzliche Informationen, z.B.:

• Details zu Datenanalysemethoden und Datenverarbeitung

• Betrieb der Detektorkomponenten

• uvm.

Store Everything – Especially High Level

At what level of detail should data be preserved ?
(top/blue: theorists, bottom/green: experimentalists)

Information from published tables and figures, e.g. numerical information in electronic form	**Publications ++** 62.3% / 74.9%
Backup information which did not fit in your publication (e.g. additional numerical information, figures and tables, comparison of data and simulation)	**More table/figures** 50.7% / 61.6%
Multi-dimensional distributions (differential cross sections in many variables, likelihood distributions) which cannot be fully detailed in the publication.	**Multi dimensional info** 58.7% / 60.4%
Event-by-event higher-level objects (e.g. four-vectors), together with appropriate information allowing some re-analysis of the data	**Four vectors** 57.0% / 69.7%
Raw data (together with appropriate access and interpretation "tools") allowing complete re-analysis of the data	**Raw data** 43.9% / 45.5%

0% 10% 20% 30% 40% 50% 60% 70% 80%

And store it somewhere like SPIRES...

Where should data be preserved ?
(top/blue: theorists, bottom/green: experimentalists)

On a site connected to the experiment/laboratory — **Labs/Exp'ts** — 41.2% / 61.0%

On a "neutral" platform, a structure such as ADS, arXiv, CDS or SPIRES adapted to house data — **Something like arXiv/SPIRES** — 85.6% / 62.8%

On a platform managed by a journal publisher — **Something like journals** — 3.7% / 3.6%
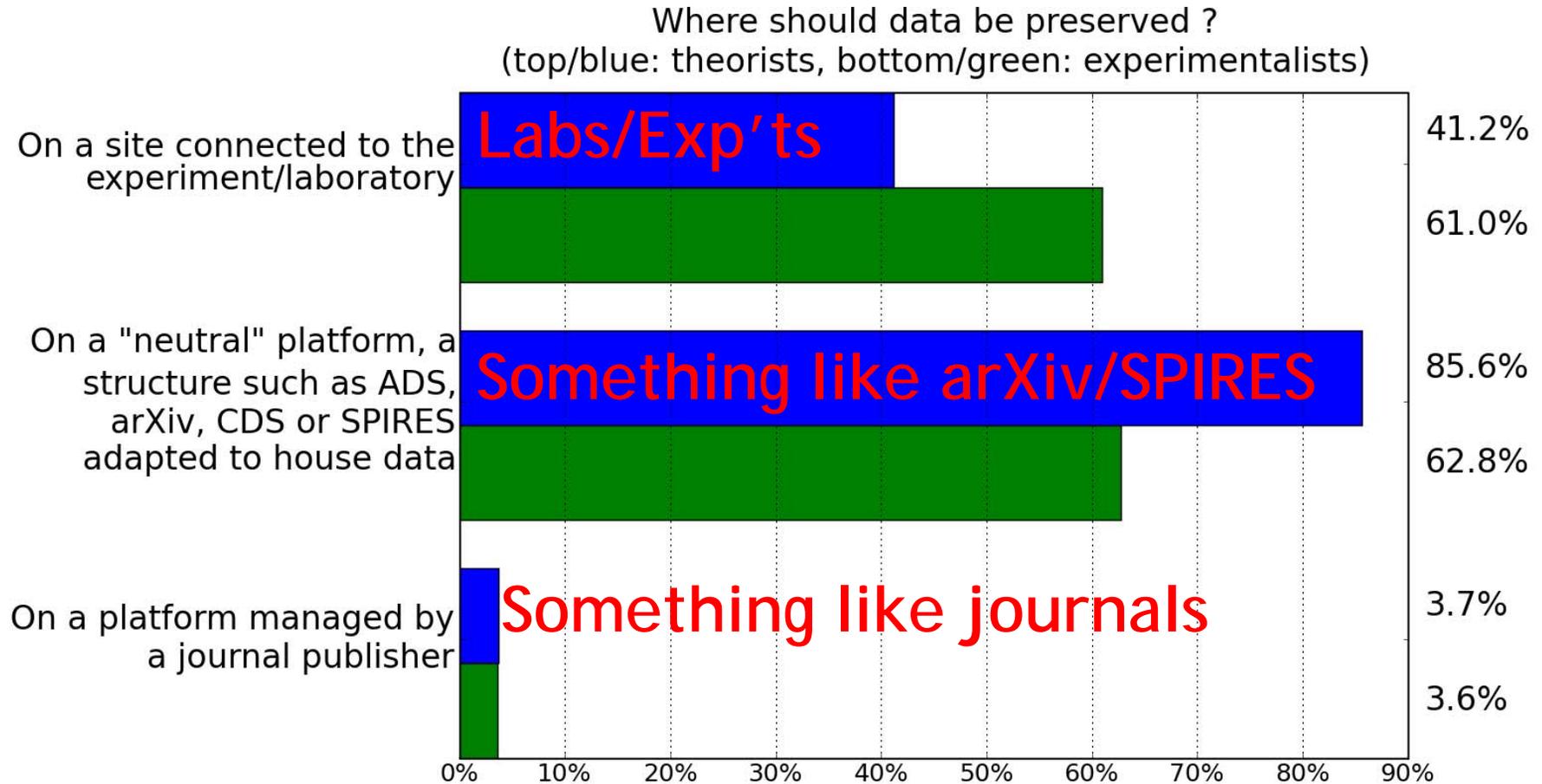
DPHEP Notes Preservation

- Beispiel HERA:
  - z.Z. auf Experiment-eigene IT-Strukturen gespeichert (Server von Experiment oder IT betreut)
    - Webseiten, AFS-Verzeichnise, home-made structures, etc.
    - Keine Bibliographische Systeme (metadaten, usw.)
    - Diese Infrastructures werden NICHT durch DESY/IT erhalten
  - No interoperability or standards
- Zusammenarbeit Bibliothek (Inspire) mit DPHEP
  - Cristinel Diaconu, David South (H1), HERMES, ZEUS
  - International – Fermilab, D0, usw
  - Testsatz, einige Internal Notes – Live !

Warum Notes in INSPIRE?

- Durch die Speicherung (injestion) von diese Notes, werden sie mit veroffentlichungen verlinkt (mehr Details, evtl. Freigeschaltet)...

- **…Dokumente bleiben unabhängig von Lebenszeit der experimentellen Webserver erhalten**

HEP :: HELP ..::.. SPIRES HEPNAMES :: INST :: CONF :: EXP :: JOBS

H1 Internal Notes

Use "find " for SPIRES-style search (other tips)

| Search | Search Tips
Advanced Search

find rn H1-IN-007

This collection is restricted. If you are authorized to access it, please click on the Search button.

Login

This collection is restricted. If you think you have right to access it, please authenticate yourself.

Username: h1coll

Password:

☐ *Remember login on this computer.*

login (Lost your password?)

Note: You can use your nickname or your email address to login.

HEP :: Search :: Help
Powered by Invenio v1.0.0-rc0+
Problems/Questions to feedback@inspirebeta.net

This site is also available in the following languages:
Български Català Deutsch Ελληνικά English Español Français

H1 Internal Notes   **11** records found   Search took 0.15 seconds.

1. **Correction of detector effects: bin-by-bin and unfolding.**
   H1 Collaboration (Stefan Schmitt for the collaboration). H1-IN-633. Mar 2011.

   References | BibTeX | LaTeX(US) | LaTeX(EU) | Harvmac | EndNote
   Detailed record - Similar records - Attribute this paper

2. **Addition to Radiative Corrections for Charged Current Process at HERA.**
   H1 Collaboration (Zhiqing Zhang for the collaboration). H1-IN-632. Dec 2010.

   References | BibTeX | LaTeX(US) | LaTeX(EU) | Harvmac | EndNote
   Detailed record - Similar records - Attribute this paper

3. **The Low Pt HFS and Jet Energy Calibration.**
   H1 Collaboration (S. Osman *et al.*). H1-IN-631. Feb 2009.

   References | BibTeX | LaTeX(US) | LaTeX(EU) | Harvmac | EndNote
   Detailed record - Similar records - Attribute this paper

4. **Energy loss measurement with the H1 Central Jet Chamber.**
   H1 Collaboration (C. Kleinwort for the collaboration). H1-IN-630. Aug 2008.

   References | BibTeX | LaTeX(US) | LaTeX(EU) | Harvmac | EndNote
   Detailed record - Similar records - Attribute this paper

Information   References   Citations   **Files**   Plots

Addition to Radiative Corrections for Charged Current Process at HERA
- H1 Collaboration (Zhiqing Zhang for the collaboration) . H1-IN-632

file(s):

h1-1210-632
version 1 h1-1210-632.pdf [75.18 KB] *16 May 2011, 16:09*

Similar records

H1–12/10-632

Addition to Radiative Corrections for Charged Current Process at HERA

Zhiqing Zhang

Laboratoire de L'Accélérateur Linéaire, IN2P3-CNRS et
Université de Paris-Sud, Orsay, France

Abstract
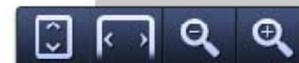
INSPIRE for internal notes

- Unabhängige und vertraute Dienstleistung "trusted third-party"
  - Global collaboration of large HEP institutions
- Langfristige erhaltung von Dokumenten und Daten
- Verbesserte information
  - Volltext suchbar
  - Plot Extraction

Langfristige Zugang

- Die Dokumenten (Notes) mit Access Control
  - Zusammenarbeit mit Collaborations und Instituten um Zugangsstrategien zu entwickeln
- Einfache Benutzerkontos live.
- Weitere Entwicklungen
  - Dynamic rights
  - Flexible Benutzerkonto (basiert aus authorenlisten usw.)

DPHEP@INSPIRE

- DESY Bibliothek (Inspire) stellt bereits grundlegende Dienstleistungen fuer DPHEP Zwecke zur Verfügung

- Mehr Dienstleistungen für DPHEP (weltweit) sind gefragt