The Subject Guide of the Physics Virtual Library ViFaPhys



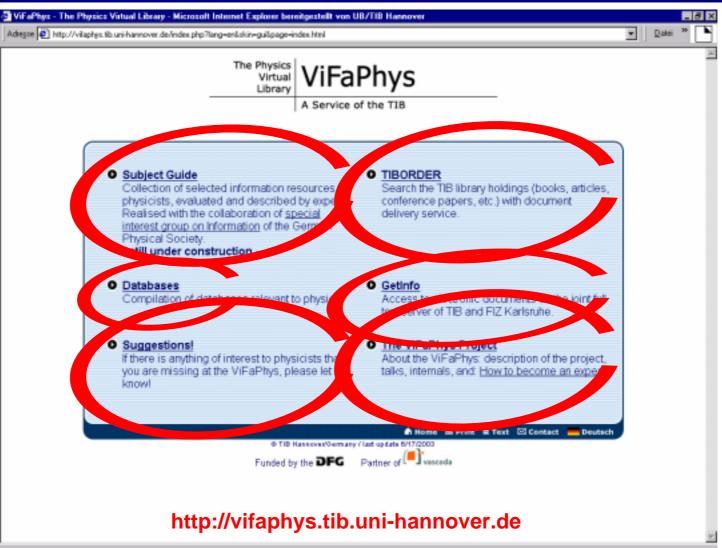


The Physics Virtual Library?

- ► Initiated and funded by the German Research Foundation DFG.
- ▶ Central access point to information and services relevant to physicists.
- ▶ Included resources mainly accessible via Internet.
- ▶ Includes the following modules:
 - Subject Guide
 - Databases
 - Futher services



The Physics Virtual Library





Collections of information resources, no single documents:

- Link Compilations
- Technical Literature
- Software
- Organisations
- Research Projects
- Conferences



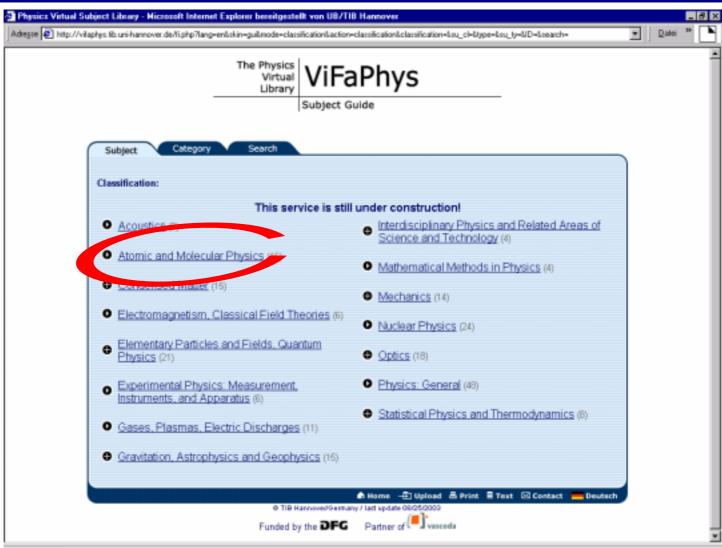
- intellectual selection
- regular checks
- short descriptions
- sorted by subject and by resource type
- ⇒ clearly organised, up-to-date compilation of evaluated and commented resources.



Resources of Scientific and Technical Data concerning Atomic and Molecular Physics?

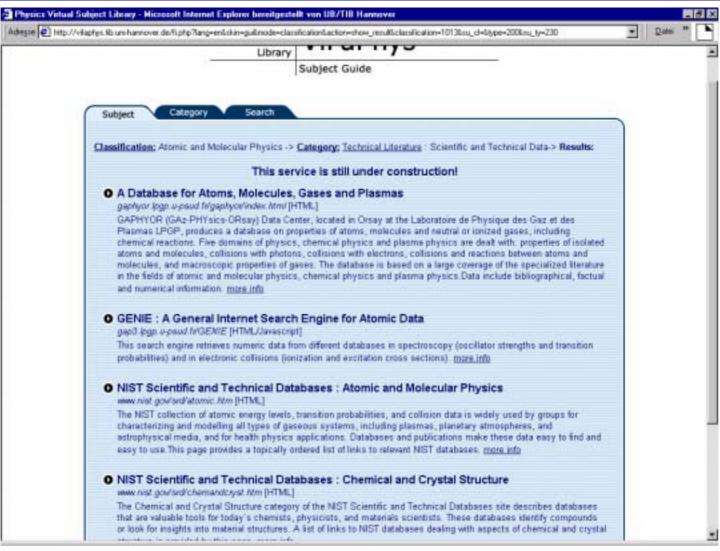












The Physics Virtual Library

- ▶ Central aspect: integration of scientists, supported by the
- special interest group on 'Information' AKI of the German Physical Society DPG:
 - engaged in scientific information and communication in physics.
 - organises integration of experts evaluating resources to be included in the Subject Guide.



Partners of ViFaPhys

▶ TIB

- German National Library of Science and Technology: Full text for physics.
- experienced in developing Virtual Libraries
- ⇒ project coordinator
- ► Institute for Science Networking (ISN) Oldenburg:
 - provides Internet-Services for physicists.
 - ⇒ implementation of ViFaPhys-Server



Partners of ViFaPhys

- ► Fachinformationszentrum Technik
 - provider of scientific and technical databases
 - ⇒ integration of INSPEC
- ▶ Fachinformationszentrum Karlsruhe
 - information services for physicists



- as members of the project's scientific advisory board
 - surveys and assists ViFaPhys.
 - ⇒ expert advice: consideration of specific needs of physicists



- as experts selecting and evaluating sources to be included in the Subject Guide:
 - judge relevance and scientific value of information sources.
 - ⇒ ensure quality of contents.



Evaluation of resources by

- experts from
 - physics departments
 - scientific research centres
 - divisions of the German Physical Society DPG
 - subject librarians.
- Experts register giving their research areas.



- ► Formal descriptions already entered:
- ⇒ Evaluation of resources means
- just a small time investment!
- expert only
 - judges relevance of source and decides if it should be included,
 - designates exact PACS category, and
 - determines audience.

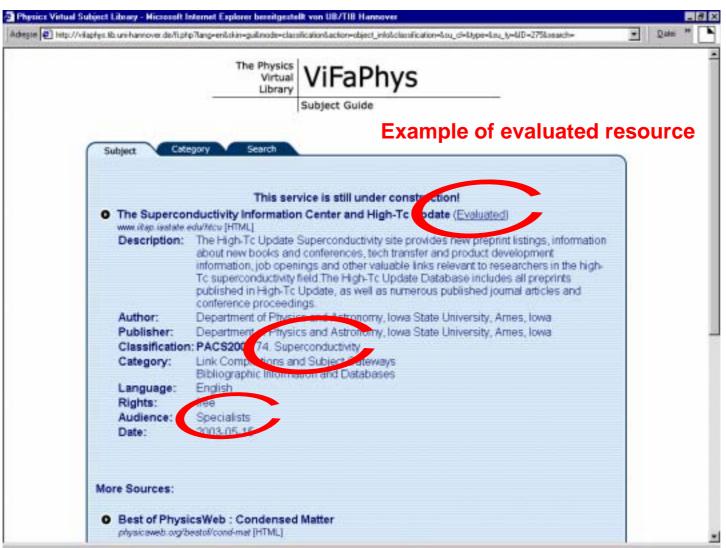


Evaluation of resources results

- ▶ in a
 - jointly maintained,
 - quality-controlled

collection of physics resources with continuity ensured by TIB.





Security standards:

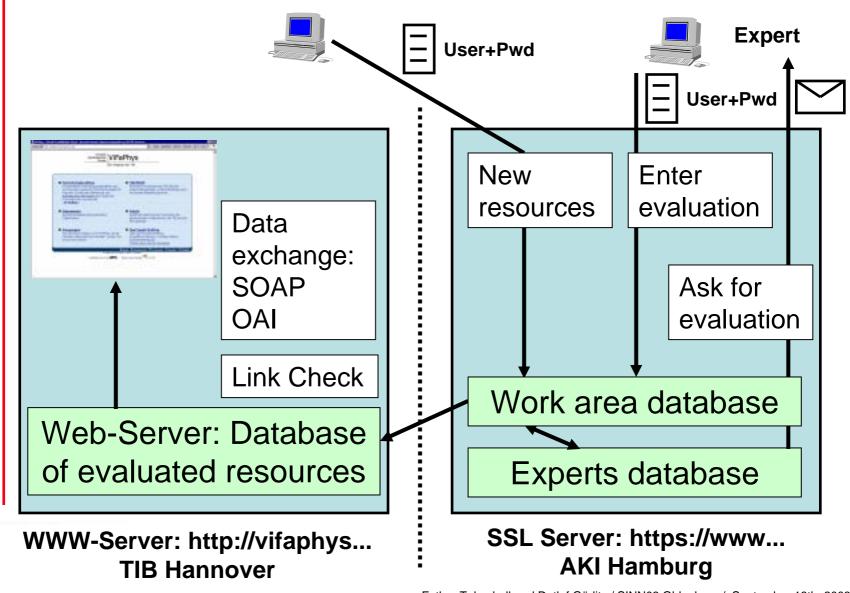
- separation of functions
 - usual web-server to present ViFaPhys to user: TCP/IP http://www...
 - restricted work area on Secure SocketLayer server: SSL https://www...
 - Certificated by DFN Server CA
- ▶ access control within database software



Software standards: Open Source

- ► Server: Apache + SSL
- ▶ Database: MySQL
- ► Script language: PHP 4





WWW-Server:

- ▶ implementation: ISN Oldenburg
- ► MySQL, PHP
- principles respected:
 - no frames
 - short page load times
 - accessibility to people with disabilities
 - robot friendly
 - bookmarkable
 - self-explanatory
 - modular design ...



- ▶ Concept of ViFaPhys:
 - scientific advisory board
 - special interest group on 'Information'
 AKI of the German Physical Society DPG
- Contents of the Subject Guide:
 - experts from physics departments etc.
 - subject librarians.



Any Questions Are Welcome to

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