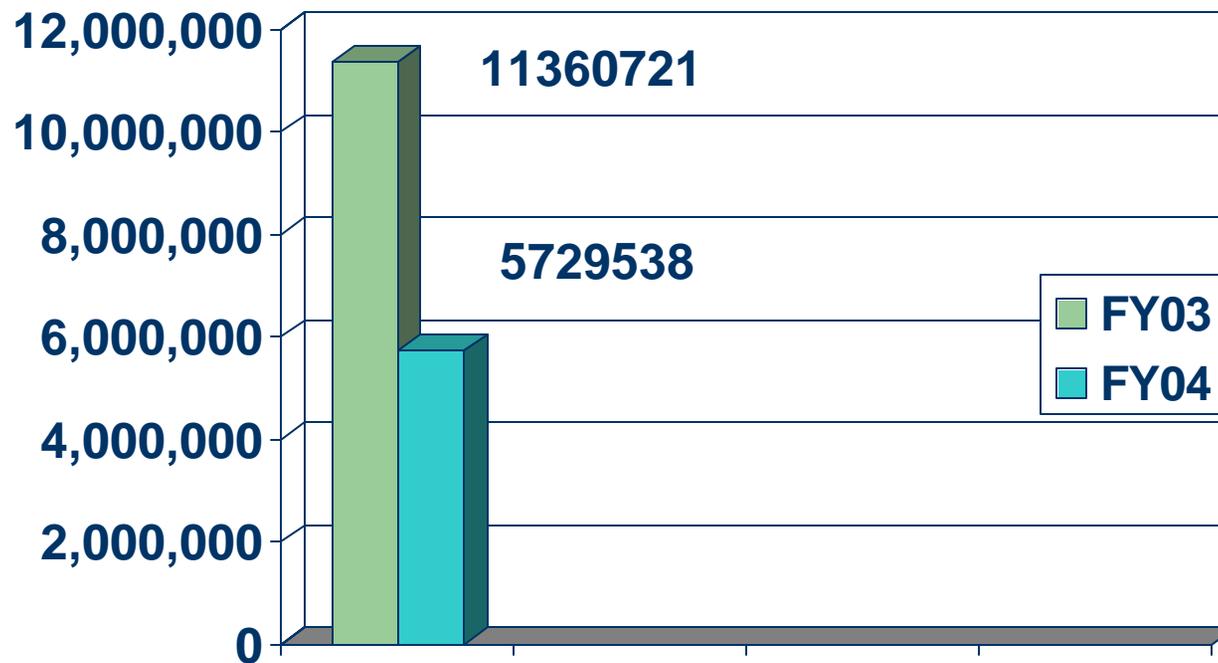


# OSTI Product Enhancements

Cosmetic,  
Reconstructive, &  
Extreme Makeovers!



# Customer Transactions Accommodated



FY04 Data thru 3/31/04

Average of 31,000+ Daily Transactions

# Product Metrics

- Yahoo/MSN Impact? 1,500 – 15,000 hits per day could take us up 230,000 transactions to 2.3 million for FY04!!!
- Approximately 50% of product accesses are from .net, .us, .gov, and .edu domains

# DOE Consolidated Product

- What is the DOE Consolidated Product? It is to be a Web-based, dynamic, organized resource for STI and related information available to the Department of Energy (DOE) research community.
- It will be web-centric, will provide full text and distributed searching capability, will be scalable and flexible, and will include multiple user-driven capabilities and functionalities.

## DOE Consolidated Product (Cont.)

- This product will be developed in Phases, with the first phase scheduled for completion at the end of this calendar year.
- Many thanks to our STIP partners who are providing feedback and support to our development team.....special thanks to Nancy Doran from PNL for participating on our team!

# Phase 1 Functionalities

- Alert services
- Discipline-base segmentation
- Simple and Fielded searching
- Taxonomy-related capabilities
- Author index
- Some relevancy ranking
- Wild card options
- Proximity searching
- Searchable full-text
- Save search capability
- Manipulation of search results
- Shopping cart capabilities
- Field sorting options

## Phase 2 & 3 Functionalities

- Distributed Deep Web searching
- Enhanced relevancy ranking
- Full text manipulation
- Content dis-aggregation
- Analysis and information assimilation tools
- Experts section
- Principal investigator directory
- Blogs
- Increased citation indexing
- Personal Libraries
- And more.....

# Science Taxonomy

- 30,000+ references to scientific concepts, processes, and properties
- 3 Dimensional structure
- Intended as an electronic tool to enhance information retrieval and use
- Initial application on DOE Consolidated Product
- Need your help and that of your researchers

# Partnerships

**GrayLIT Network**  
Federal Gray Literature

**Energy Citations Database**  
1948–Present

**science.gov**  
Federal Science Resources

**Information Bridge**  
Open Source to DOE's IT  
Full-text Reports

**Federal R&D Project Summaries**  
Federally Funded Research

**GPO Access**

## Partners in Innovation

DOE Office of  
Scientific and Technical Information  
GPO Federal Depository Library Program

# Reference Linking

- New service initiated December 2003
- Based solely on author's request
- Hyperlinks added to report references as available
- Report returns to the STI management cycle at the respective organization



# Reference Linking Example: LLNL

The screenshot shows the Adobe Reader interface with a document titled "Adobe Reader - [2446111.pdf]". The document content is a list of references. The third reference is highlighted with a black box around the DOI link: [http://dx.doi.org/10.1016/S0168-9002\(99\)01354-6](http://dx.doi.org/10.1016/S0168-9002(99)01354-6). The interface includes a menu bar (File, Edit, View, Document, Tools, Window, Help), a toolbar with icons for Open, Save a Copy, Print, Email, Search, and Select Text, and a sidebar with Bookmarks, Signatures, Layers, and Pages. The status bar at the bottom shows the page number "11 of 15" and the system tray with various application icons and the time "8:21 AM".

References

- [1] Proceedings of the 8th International Workshop on Low Temperature Detectors (LTD-8), *Nucl. Inst. Meth. A* 444 (2000)
- [2] K.D. Irwin et al., *Nucl. Inst. Meth. A* 444, 184 (2000)
- [3] E. Silver et al., [http://dx.doi.org/10.1016/S0168-9002\(99\)01354-6](http://dx.doi.org/10.1016/S0168-9002(99)01354-6)
- [4] A. Alessandrello et al., *Phys. Rev. Lett.* 82, 513 (1999)
- [5] D.A. Wollman, K.D. Irwin, G.C. Hilton, L.L. Dulcie, D.E. Newbury, J.M. Martinis, *J. Microscopy* 188, 196 (1997)
- [6] S. Kraft et al., *J. Appl. Phys.* 86, 7189 (1999)
- [7] S. Friedrich et al., *IEEE Trans. Appl. Supercond.* 9, 3330 (1999)
- [8] G. Angloher et al., *Nucl. Inst. Meth. A* 444, 214 (2000)
- [9] D.E. Prober et al., to be published in *SADD Proceedings*, Baltimore (2000)
- [10] M. Frank et al., *Rev. Sci. Instr.* 69, 25 (1998)

# Reference Links to Science Direct

The screenshot shows a Microsoft Internet Explorer browser window displaying a ScienceDirect article page. The browser's address bar shows a URL with parameters. The page header includes the Elsevier ScienceDirect logo, a registration/login form, and navigation buttons for Home, Journals, Abstract Databases, Books, Reference Works, My Profile, and Alerts. The main content area features the article title, volume and issue information, a DOI link, and the publisher name. The article title is "A Mo-Cu superconducting transition-edge microcalorimeter with 4.5 eV energy resolution at 6 keV<sup>\*1</sup>". To the right of the title, there is a green box containing a list of actions: "This Document" with links for "Abstract", "Full Text + Links", and "PDF (154 K)", and "Actions" with a link for "E-mail Article". The browser's taskbar at the bottom shows various open applications and the system clock.

ScienceDirect - Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Sp - Microsoft Internet Exp

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Print

Address [d=1&\\_cdi=5314&\\_sort=d&view=c&\\_acct=C000050221&\\_version=1&\\_urVersion=0&\\_userid=10&md5=32e5930db455f16ecd53b0dc9a115f8](#) Go

Google plastic surgery basics Search Web PageRank AutoFill Options plastic surgery

Y! Search Web Mail My Yahoo! Games Yahoo! Personals

ELSEVIER SCIENCE @ DIRECT

Register or Login: user name Password: Go Athens Login

Home Journals Abstract Databases Books Reference Works My Profile Alerts Help

WELCOME GUEST USER Info

[Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment](#)  
Volume 444, Issues 1-2 , 7 April 2000, Pages 184-187

[doi:10.1016/S0168-9002\(99\)01354-6](#) ? Cite or link using doi  
Published by Elsevier Science B.V.

**A Mo-Cu superconducting transition-edge microcalorimeter with 4.5 eV energy resolution at 6 keV<sup>\*1</sup>**

This Document

- ▶ **Abstract**
- [Full Text + Links](#)
- [PDF \(154 K\)](#)

Actions

- [E-mail Article](#)

Help is Available

Start | Inbox - ... | Corel... | Scien... | Micros... | Locato... | Loc... | Adobe... | MY PC | Soft | 8:30 AM

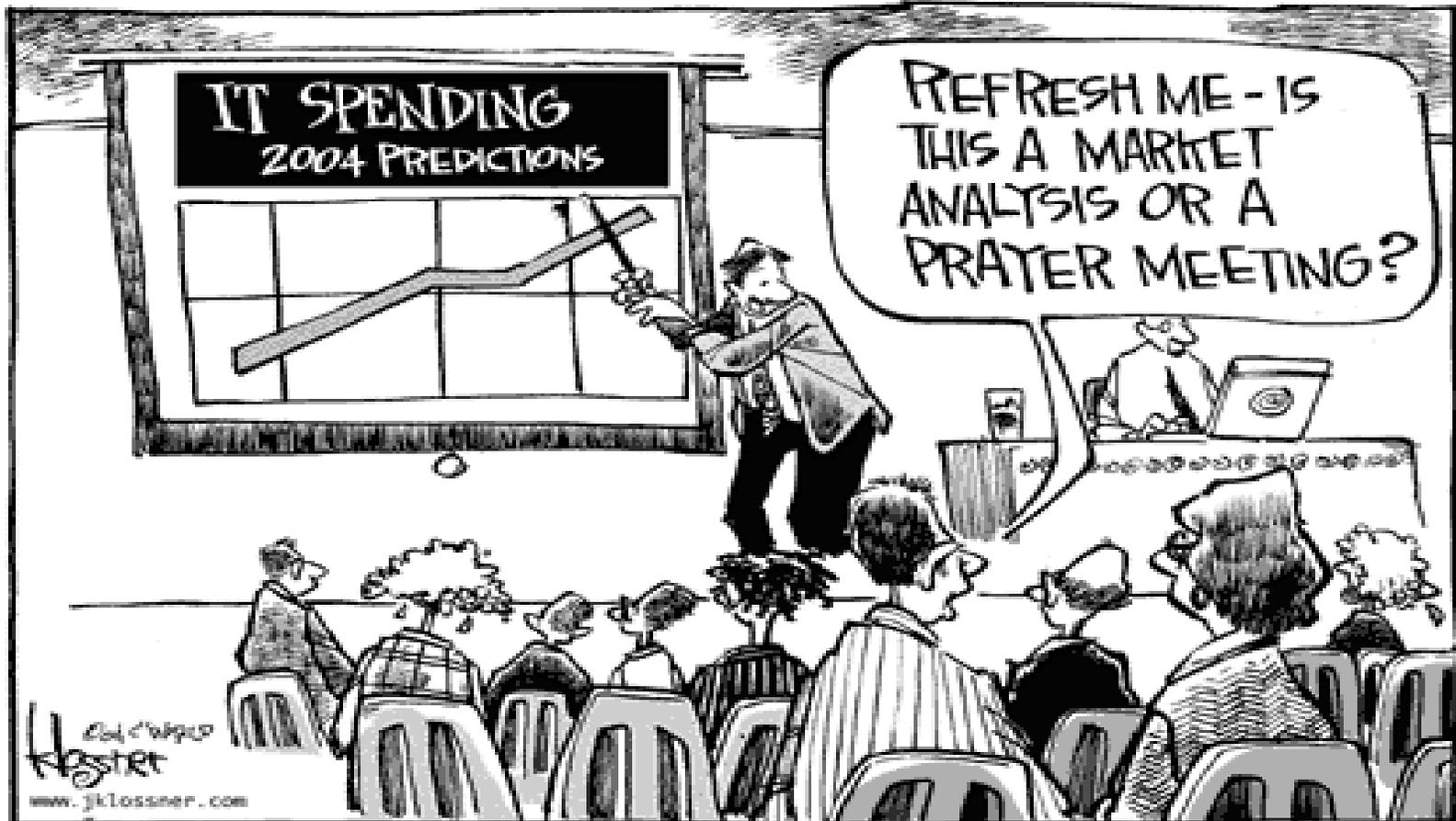
# E-Print Network: Research Communications for Scientists and Engineers

- July 2003 renamed Preprint Network
- Includes pre-publication drafts of journal articles (preprints), scholarly papers, technical communications, or similar documents relaying research results among peer groups
- Deep Web search capability
- Alert Service
- 2000+ Scientific Societies web sites

## E-Print Network (Cont.)

- 350,000 PDF and Postscript/Ghostscript documents
- 12,700 web sites
- 29 databases with 1,000,000 records
- Quarterly Recrawls
- Pursuing relevancy ranking, an author index, and other document formats

# IT 2004 at OSTI



# OSTI's Evolving IT Environment

- Upgrading and replacing web server for modest increase in individual user performance
- Will be able to accommodate more total users
- Enabling fault tolerance on disks to automatically service any disk failures

## What Next?

- Alert Services
- Link Checkers
- Connections to Other Search Engines
- .....

# Final Words of Wisdom!

**Be determined in achieving your goals...**

