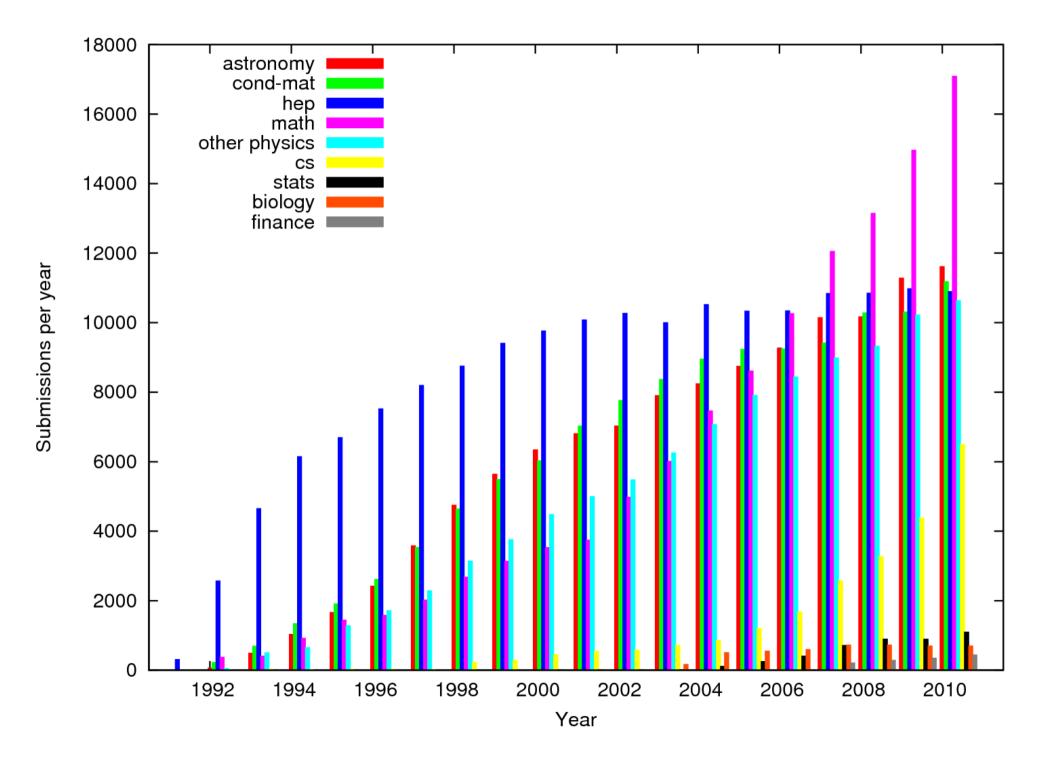
# arXiv: Integrating disciplinary repositories with multiple partners and services

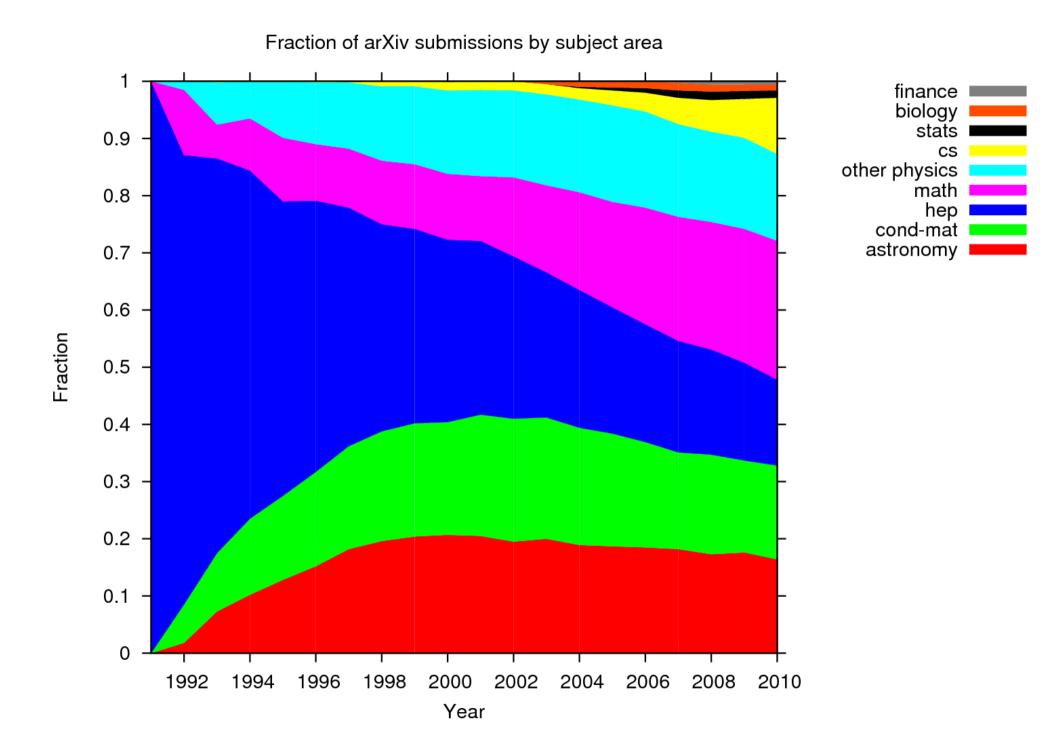
Simeon Warner (Cornell)

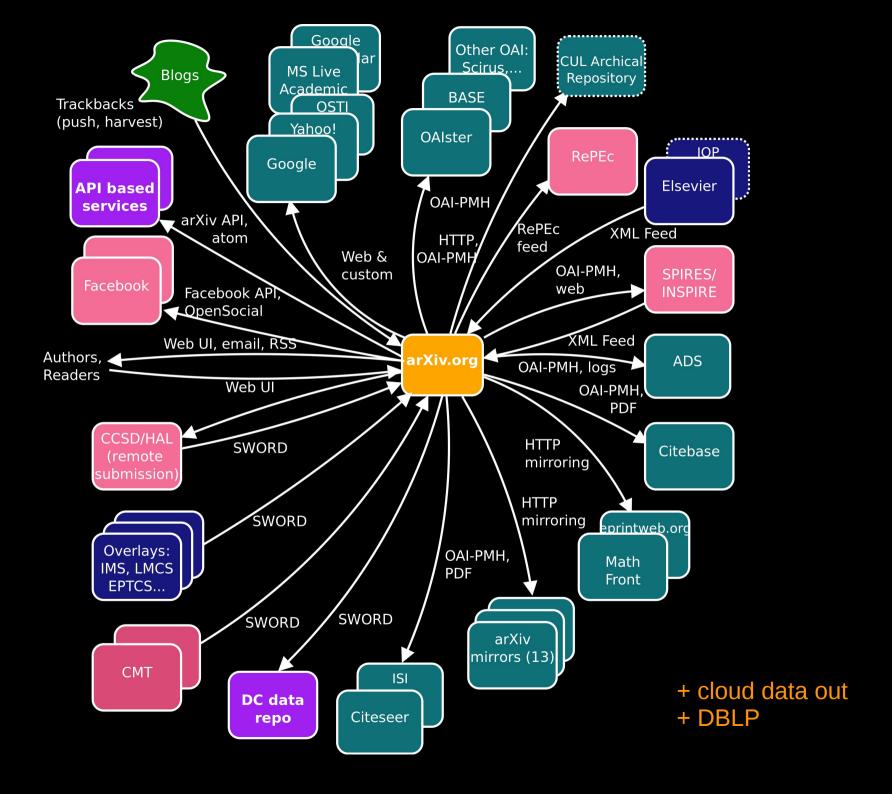
some slides from Thorsten Schwander

JCDL 2011, Workshop on Disciplinary Repositories and Field-Specific Digital Libraries, Ottawa, Canada, 16-17 June 2011









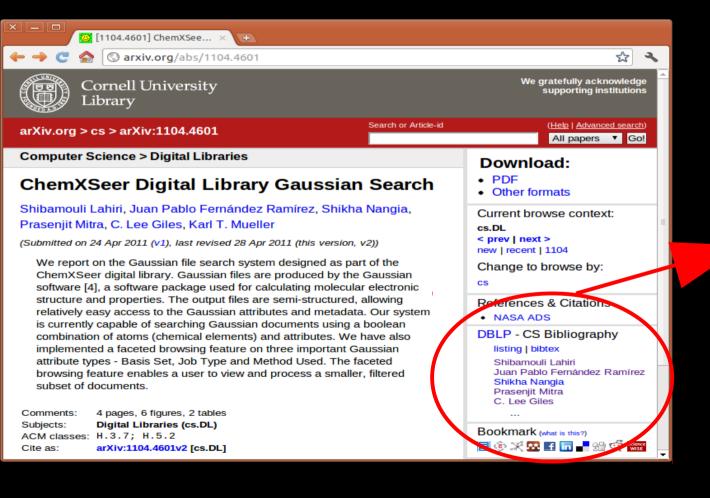
# Bibliographic data

- Authors may submit DOI and/or journal ref.
- 683k articles:
  - 50% have DOI
  - 48% have journal ref.
- Most from or "corrected" by ADS& SPIRES

Source	Number of articles		
ADS	207696		
SPIRES	132525		
Elsevier	8346		
PTP	234		

## **DBLP**

Harvest DBLP data, link to author profiles





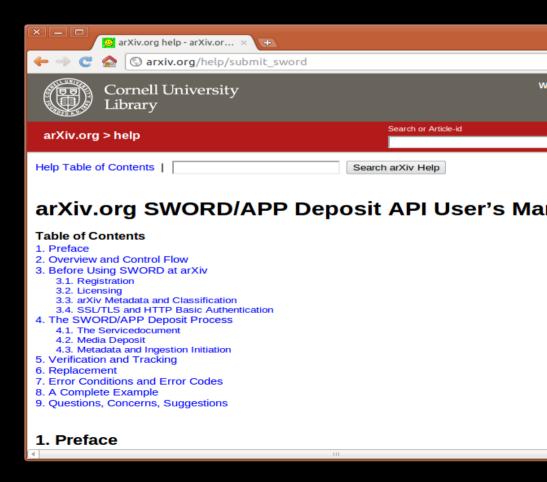
## Author Ids, Facebook and Widgets

- Steady creation of author ids (6256 opt-ins as of 2011-06-17, 70k claimed author-article pairs)
- Small Facebook user community but we did not find the "killer app"
  - Facebook expensive as API changes rapidly
  - Did we fail to find "the way" or is it just not ripe?
- JavaScript widget displays live data on homepage
- Need better claiming (INSPIRE collab)
- Need data export

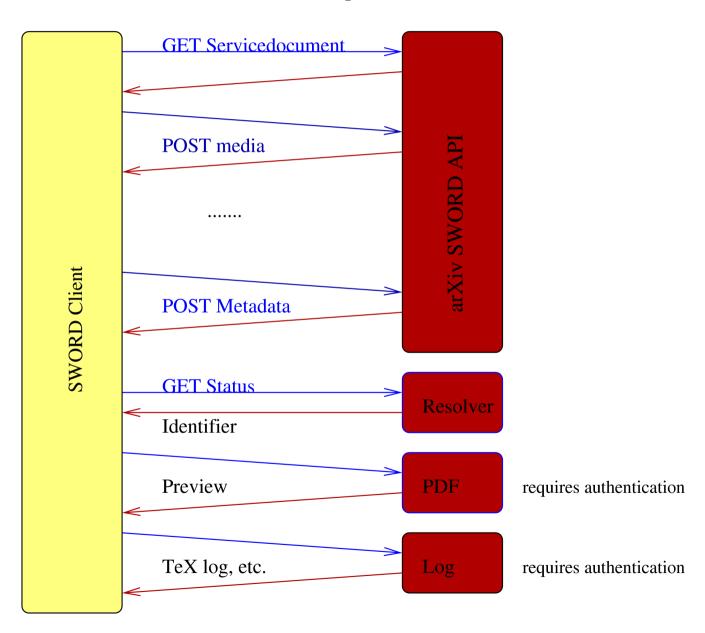
# SWORD = Automated deposit

- Implemented early 2010, >5000 submissions
- IN: Proxy site, overlays
- OUT: Data Conservancy
- Replaces ad-hoc method

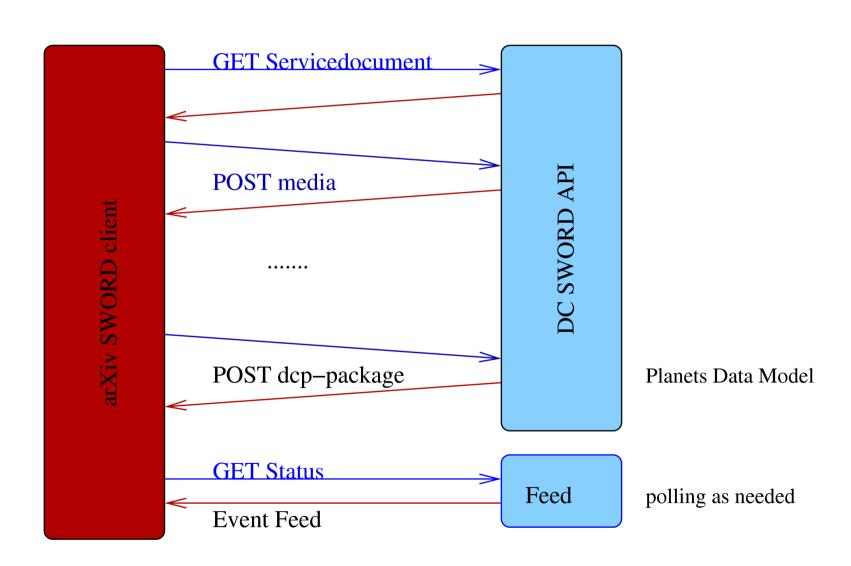
- IR mediated deposit?
- Push to IR?



# SWORD deposit to arXiv

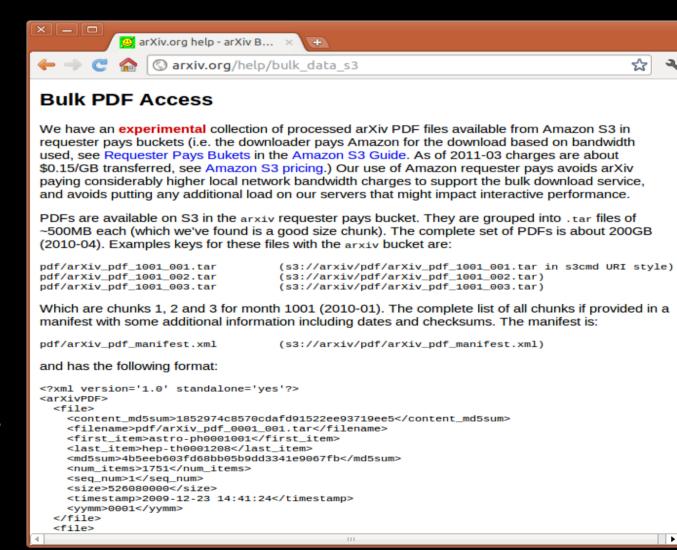


# arXiv deposit to Data Conservancy



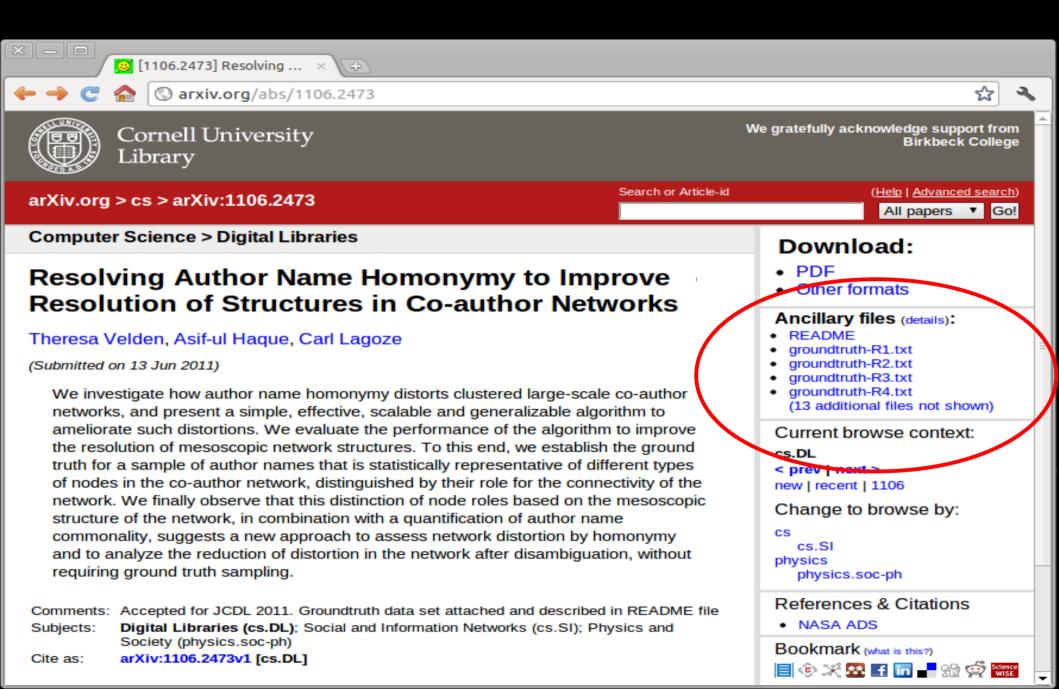
## Access to arXiv data

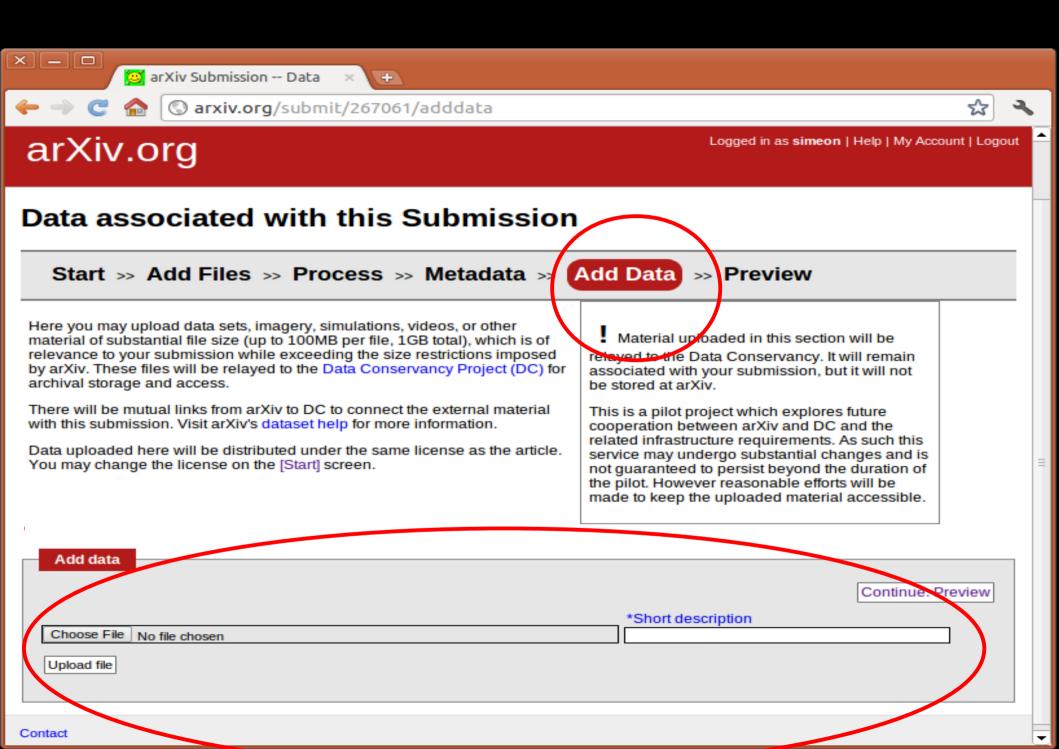
- Want arXiv data to be used
- Don't want to spend admin time dealing with it
- Don't want cost
- => put on Amazon S3
- PDF, source... txt and metadata soon



### **Datasets**

- Everyone agrees very important
- Nobody knows what to do in general
- "Try something" approach
  - Ancillary data with submissions
  - Collaboration with Data Conservancy















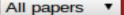


arXiv.org > astro-ph > arXiv:1106.1694

Search or Article-id

(Help | Advanced search)

supporting institutions



We gratefully acknowledge



#### Astrophysics > Solar and Stellar Astrophysics

#### A Multicolour Photometric Study of the neglected eclipsing binary FT Ursae Majoris

Jin-Zhao Yuan

(Submitted on 9 Jun 2011)

The multicolour photometric observations of the neglected eclipsing binary FT Ursae Majoris (FT UMa) were obtained in 2010. The 2003 version of Wilson-Devinney code was used to analyze the light curves in \$B\$, \$V\$, and \$R\$ bands simultaneously. Based on the spectroscopic mass ratio \$q=0.984\$ published by Pribulla et al., it is found that FT UMa is an evolved contact binary with a contact degree of 15.3%. The low amplitude of light variations, \$\sim 0.15\$ mag, arises mainly from a moderately low inclination angle of \$i=62.^{\circ}80\$ and almost identical components in size rather than the light dilution of a third component, which contributes light of only \$\sim 10%\$

Comments: 5 pages, 2 figures

Solar and Stellar Astrophysics (astro-ph.SR) Subjects:

Cite as: arXiv:1106.1694v1 [astro-ph.SR]

#### Download:

- PDF
- PostScript
- Other formats

Data sets (what is this?)

Data Conservancy (3 files)

Current browse context

astro-ph.SR

< prev | next >

new | recent | 1106

Change to browse by:

astro-ph

#### References & Citations

- SLAC-SPIRES HEP (refers to | cited by)
- NASA ADS

Bookmark (what is this?)



















# Institutional support model

- Short term model for 2010-2012
- Ask top 200 institutions, account for >75% inst downloads
- 2010: \$360,000
  - 123 institutions,
  - 11 countries
- 2011: \$275,000 as of April
- Working on governance
- More focus on institutions
  - Report as benefit?



For questions related to institutional contributions or other funding for arXiv properties of technical or moderation queries please contact arXiv administrators and

=== Statistics for arXiv use from Cornell ===

Found 811 registered users with Cornell email or claimed affiliation (0.5% of the 176350 user accounts in arXiv)

Found 2616 articles owned by users with Cornell email or claimed affiliation (0.4% of the 683460 documents in arXiv)

Found 2944 articles submitted by users with Cornell email (0.4% of the 683460 documents in arXiv)

=== Submissions in 2010 ===

Found 273 articles in 2010 owned by users with Cornell email or claimed affiliation (0.4% of 70125 total articles in 2010)

Breakdown of articles submitted in 2010 by subject areas:

Cond. Matter Physics 58 (21.2%)

Mathematics 55 (20.1%)

Astrophysics 49 (17.9%)

Computer Science 39 (14.3%)

Other Physics 38 (13.9%)

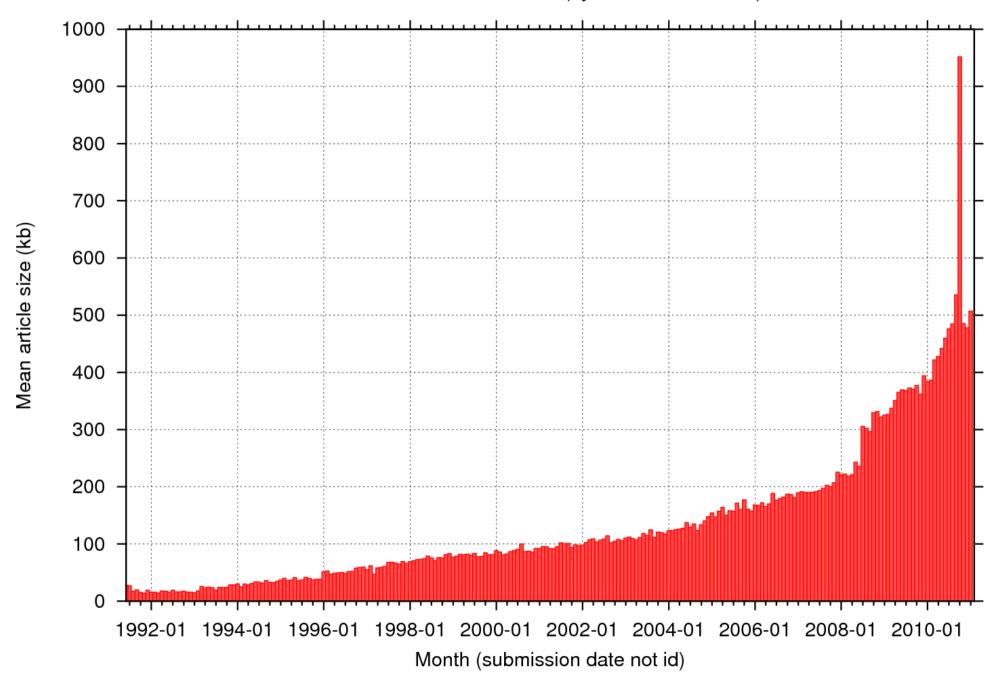
High-Energy Physics 28 (10.3%)

Statistics 4 (1.5%)

Quantitative Finance 1 (0.4%)

Quantitative Biology 1 (0.4%)

TOTAL 273



# Mirrors not so useful

Site (2010 data)	Institutional downloads	%TOTAL	Downloads	%TOTAL	%INST
TOTALS	11812746	100.0%	39706223	100.0%	29.8%
cul	10257772	86.9%	33625597	84.7%	30.5%
lanl	585955	5.0%	1824742	4.6%	32.1%
de	220574	1.9%	727938	1.8%	30.3%
jp	219162	1.9%	598719	1.5%	36.6%
uk	218081	1.8%	607037	1.5%	35.9%
fr	135822	1.2%	384750	1.0%	35.3%
es	46149	0.4%	110663	0.3%	41.7%
ru	35525	0.3%	275295	0.7%	12.9%
aps	32451	0.3%	428740	1.1%	7.6%
au	14786	0.1%	87065	0.2%	17.0%
cn	13828	0.1%	360918	0.9%	3.8%
in	12099	0.1%	583503	1.5%	2.1%
br	9215	0.1%	47042	0.1%	19.6%
il	8038	0.1%	21084	0.1%	38.1%
tw	3289	0.0%	23130	0.1%	14.2%

## What else?

- Started work to migrate access system to Invenio (the "out of the box" solution?)
- Sharing login facility and authorship data with INSPIRE
- Pilot collaboration with ScienceWISE to link to tagged/annotated versions of papers

## Wish list

- Link author ids to other systems (ORCID when available)
- Better claiming
- Affiliation data
- Linked Data view of arXiv,
  RDF data dump

## That's all folks

- Thanks to
  - Supporters: http://arxiv.org/help/support/2011\_supporters
  - Funders: NSF (as part of Data Conservancy),
    Microsoft (ended 2010)
  - Team: Thorsten Schwander, Martin Lessmeister,
    Peter Halliday, David Ruddy, Oya Rieger,
    Jacob Weiskoff, Donald Beyer, Fiona Patrick,
    Paul Ginsparg