

Citebase Search:

Autonomous Citation Database for e-print Archives

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Content

- Motivations
- Behind the Scenes
- The Service
- arXiv.org author behaviour

Open Citation Project

- **“OpCit, a three year R&D project that began in October 1999 and completed at the end of 2002, was funded by the Joint NSF - JISC International Digital Libraries Research Programme”**
- “... to attempt to hyperlink each of the over 200,000 papers in Los Alamos's unique online Physics Archive to every other paper in the archive that it cites”

Open Archives Initiative

- Santa Fe (1999)
- “... to facilitate the discovery of content stored in distributed e-print archives.”
- Initial versions 2000ish
- arXiv.org a test-bed for OAI (0.9 thru 2.0)

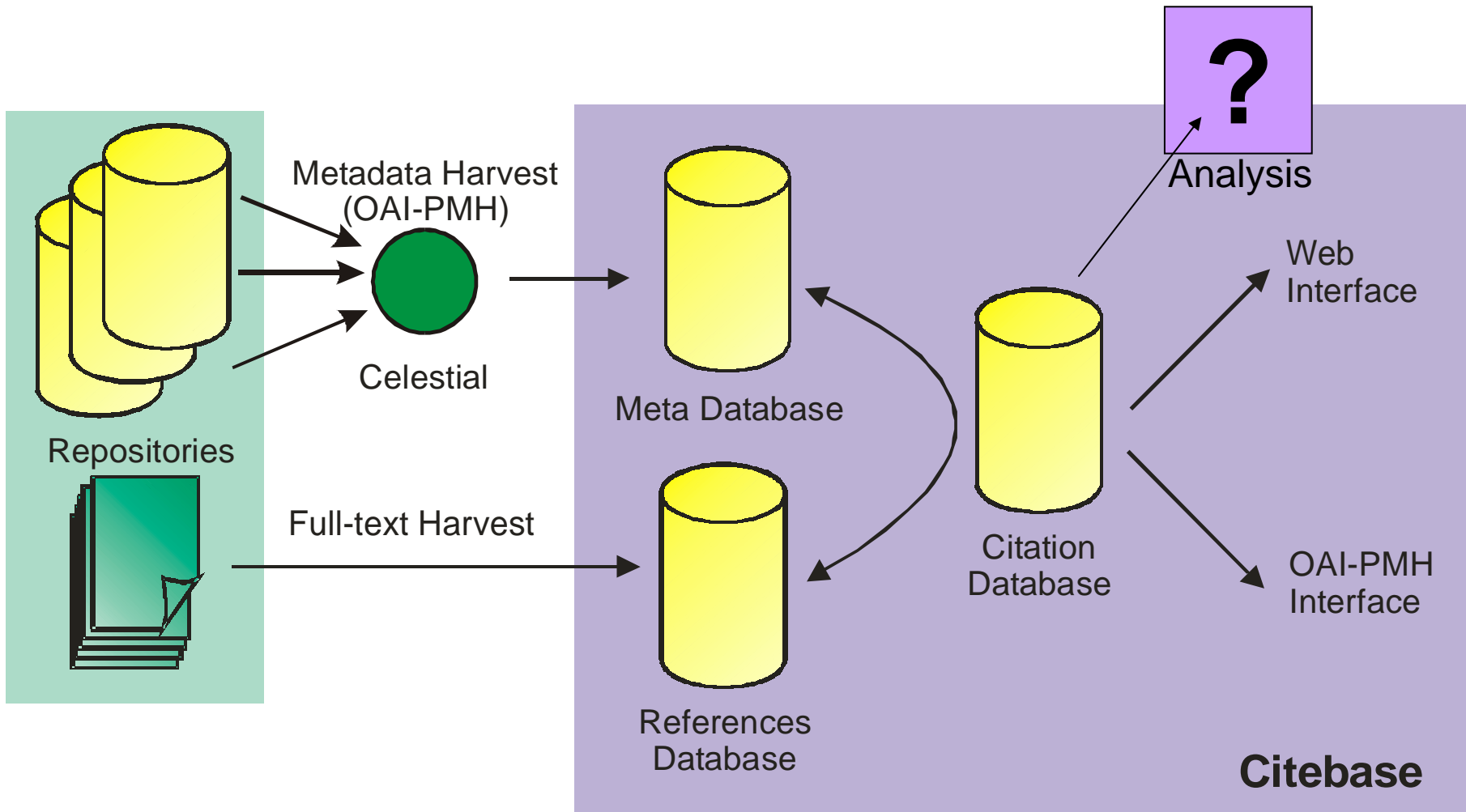
Citebase Search

- Coupled experiments with OAI with OpCit's reference linking
 - the first Citebase prototypes used Dienst
- Evolved into a “cross-archive Citation-linking search engine”: **Citation Database**
- Primary output of OpCit
- (changed approach from SFX-style ‘just-in-time’ linking to a linkbase)

So?

- “Google for the research literature”
- With an ACI who needs cross-ref, DOI, ‘digital libraries’?
 - (See also Guédon, Jean-Claude (2001)
<http://www.arl.org/arl/proceedings/138/guedon.html>)
- Citeseer, iCite, ... ?
- Separates the *service* from the *content* – anybody can build an ACI over OAI repositories

Citebase Data Flow



Content

- 250,000 full-text resources
 - 240,000 of which arXiv.org
- 6 million references
 - 29 mean refs/paper (therefore failed to extract references for 18% of papers)
 - (n.b. modal refs is 19)
- 1 million references linked internally to the full-text (15%)

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http://citebase.eprints.org/cgi-bin/search Search

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Citebase is currently only an experimental demonstration. Users are cautioned not to use it for academic evaluation yet. Citation coverage and analysis is [incomplete](#) and hit coverage and analysis is both [incomplete](#) and [noisy](#).

[Metadata](#) [Citation](#) [OAI Identifier](#)

Author(s) ([explanation](#))

Title/Abstract Keywords

Publication title

Creation Date from until

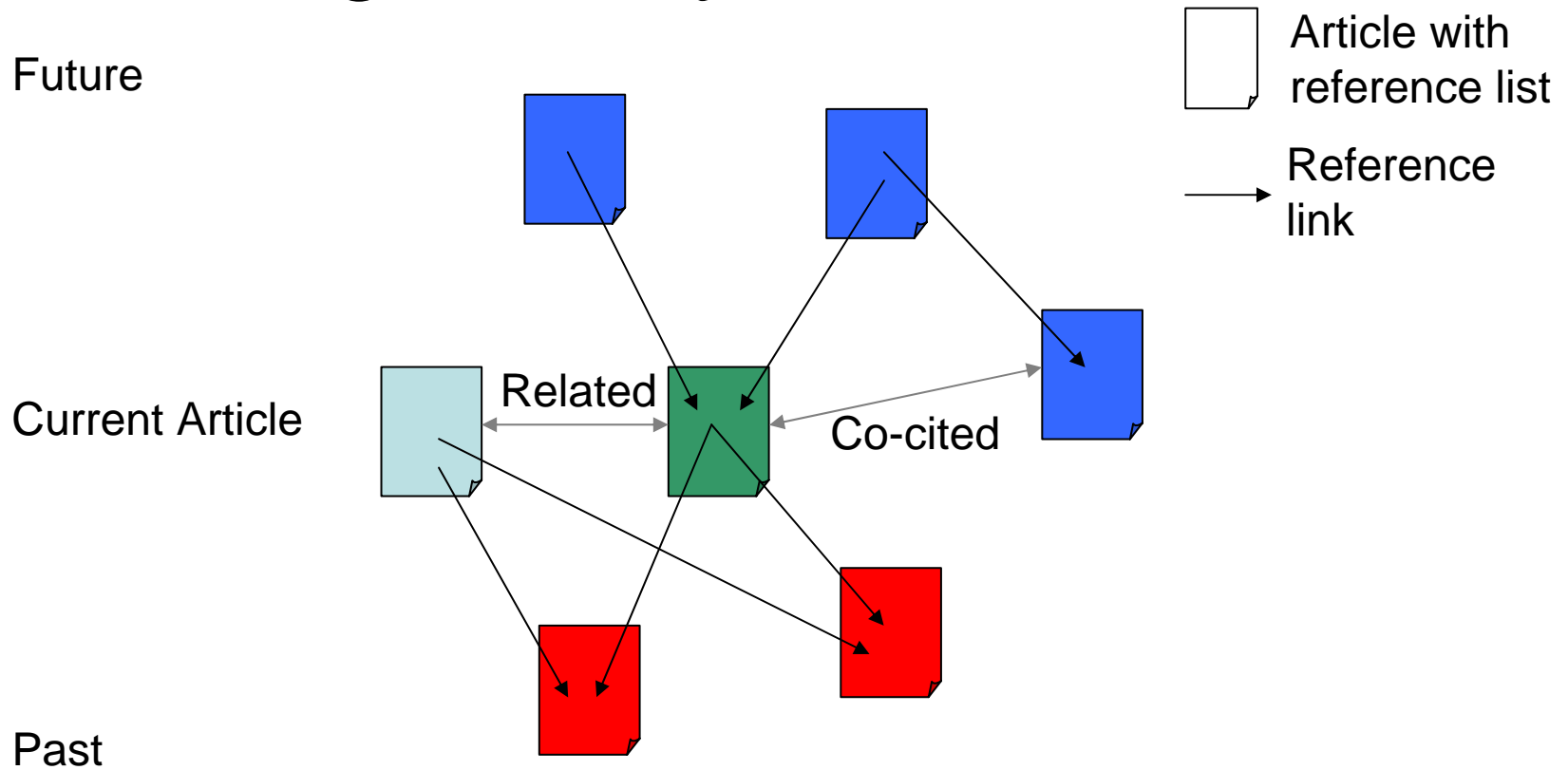
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 311 *Brodsky, S ; Pauli, H-C; Pinsky, S* (1997-05-29) oai:arXiv.org:hep-ph/9705477
 ... of relativistic quarks and gluons, and also as a novel method for simulating **quantum** field theory on a **computer**. The light-cone Fock state expansion of wavefunctions provides a precise ...

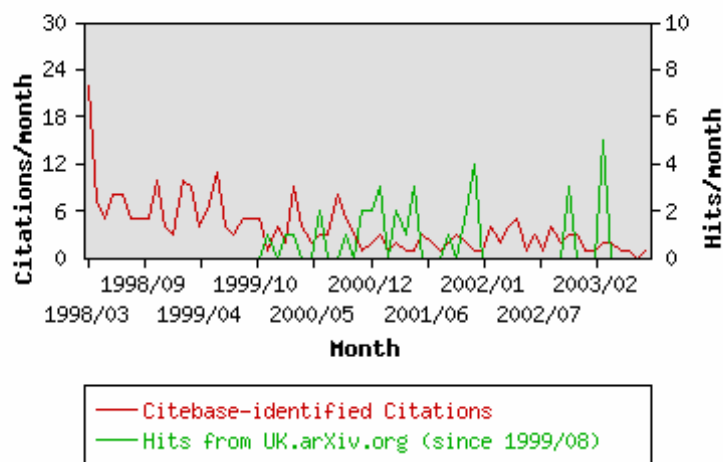
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Planar Diagram Field Theories, in 'Progress in Gauge Field Theory', NATO Advanced Study Institute, eds. G. 't Hooft et al. pp. 271-335 (Plenum, New York, 1984).

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We review the holographic correspondence between field theories and string/M theory, focusing on the relation between compactifications of string/M theory on Anti-de Sitter spaces and conformal field theories. We review the background for this correspondence and discuss its motivations and the ...

Comment: 261 pages, 42 post-script figures. Please send any comment to jmaldac@fas.harvard.edu. v2: added references and small corrections. v3: minor changes and corrected discussion of SU(3)-invariant supergravity solution

[Anti-de Sitter Space, Thermal Phase Transition, And Confinement In Gauge Theories](#) [[Abstract/Citations](#), [PDF](#)]513 *Witten, Edward* (1998-03-16) oai:arXiv.org:hep-th/9803131

The correspondence between supergravity (and string theory) on AdS space and boundary conformal field theory relates the thermodynamics of $N=4$ super Yang-Mills theory in four dimensions to the thermodynamics of Schwarzschild black holes in Anti-de Sitter space. In this description, ...

Comment: 28 pp., added references and minor corrections

[Correlation functions in the CFT\(d\)/AdS\(d+1\) correspondence](#) [[Abstract/Citations](#), [PDF](#)]234 *Freedman, Daniel Z ; Mathur, Samir D ; Matusis, Alec et al* (1998-04-07) oai:arXiv.org:hep-th/9804058

Conformal techniques are applied to the calculation of integrals on AdS(d+1) space which define correlators of composite operators in the superconformal field theory on the d-dimensional boundary. The 3-point amplitudes for scalar fields of arbitrary mass and gauge fields in the AdS supergravity ...

Comment: 27 pages, LaTeX, 1 eps figure, few misprints corrected, references added

[The String Dual of a Confining Four-Dimensional Gauge Theory](#) [[Abstract/Citations](#), [PDF](#)]184 *Polchinski, Joseph ; Strassler, Matthew J* (2000-03-15) oai:arXiv.org:hep-th/0003136

We study $N=1$ gauge theories obtained by adding finite mass terms to $N=4$ Yang-Mills theory. The Maldacena dual is nonsingular: in each of the many

Top 5 Articles Co-cited with this Article ([explain?](#))[[Abstract](#) | [References](#) | [Cited By](#) | [Co-Cited With](#)]**Wilson loops in large N field theories** [[Abstract/Citations](#), [PDF](#)]231 *Maldacena, Juan M* (1998-02-28) oai:arXiv.org:hep-th/9803002

We propose a method to calculate the expectation values of an operator similar to the Wilson loop in the large N limit of field theories. We consider $N=4$ 3+1 dimensional super-Yang-Mills. The prescription involves calculating the area of a fundamental string worldsheet in certain supergravity ...

Comment: 12 pages, harvmac. v2: sign in eqn. (5.6) corrected, v3 typo corrected

The Large N Limit of Superconformal Field Theories and Supergravity [[Abstract/Citations](#), [PDF](#)]195 *Maldacena, Juan M* (1997-11-27) oai:arXiv.org:hep-th/9711200

We show that the large N limit of certain conformal field theories in various dimensions include in their Hilbert space a sector describing supergravity on the product of Anti-deSitter spacetimes, spheres and other compact manifolds. This is shown by taking some branes in the full M /string ...

Comment: 20 pages, harvmac, v2: section on AdS_2 corrected, references added, v3: More references and a sign in eqns 2.8 and 2.9 corrected

Anti De Sitter Space And Holography [[Abstract/Citations](#), [PDF](#)]183 *Witten, Edward* (1998-02-20) oai:arXiv.org:hep-th/9802150

Recently, it has been proposed by Maldacena that large N limits of certain conformal field theories in d dimensions can be described in terms of supergravity (and string theory) on the product of $d+1$ -dimensional AdS space with a compact manifold. Here we elaborate on this idea and propose ...

Comment: 40 pp.; additional references and assorted corrections

Gauge Theory Correlators from Non-Critical String Theory [[Abstract/Citations](#), [PDF](#)]182 *Gubser, S S ; Klebanov, I R ; Polyakov, A M* (1998-02-16) oai:arXiv.org:hep-th/9802109

We suggest a means of obtaining certain Green's functions in 3+1-dimensional $(\text{local } N) = 4$ supersymmetric Yang-Mills theory with a large number of colors via non-critical string theory. The non-critical string theory is related to critical string theory in anti-deSitter background. We introduce a ...

Comment: 15 pages, harvmac with btzmac; minor revisions, 1 reference added, the version to appear in Physics Letters B

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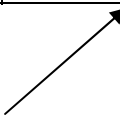
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Hawking



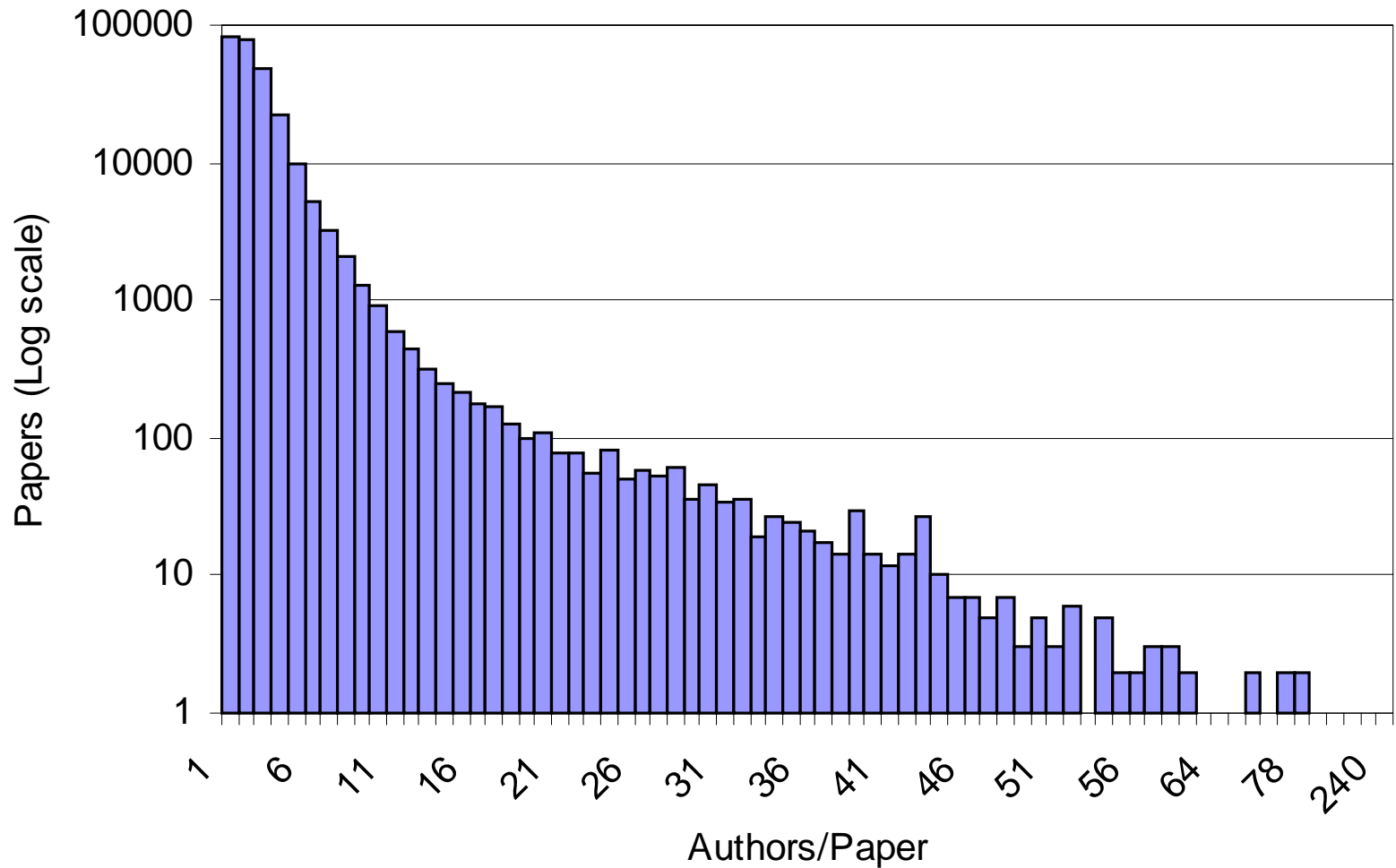
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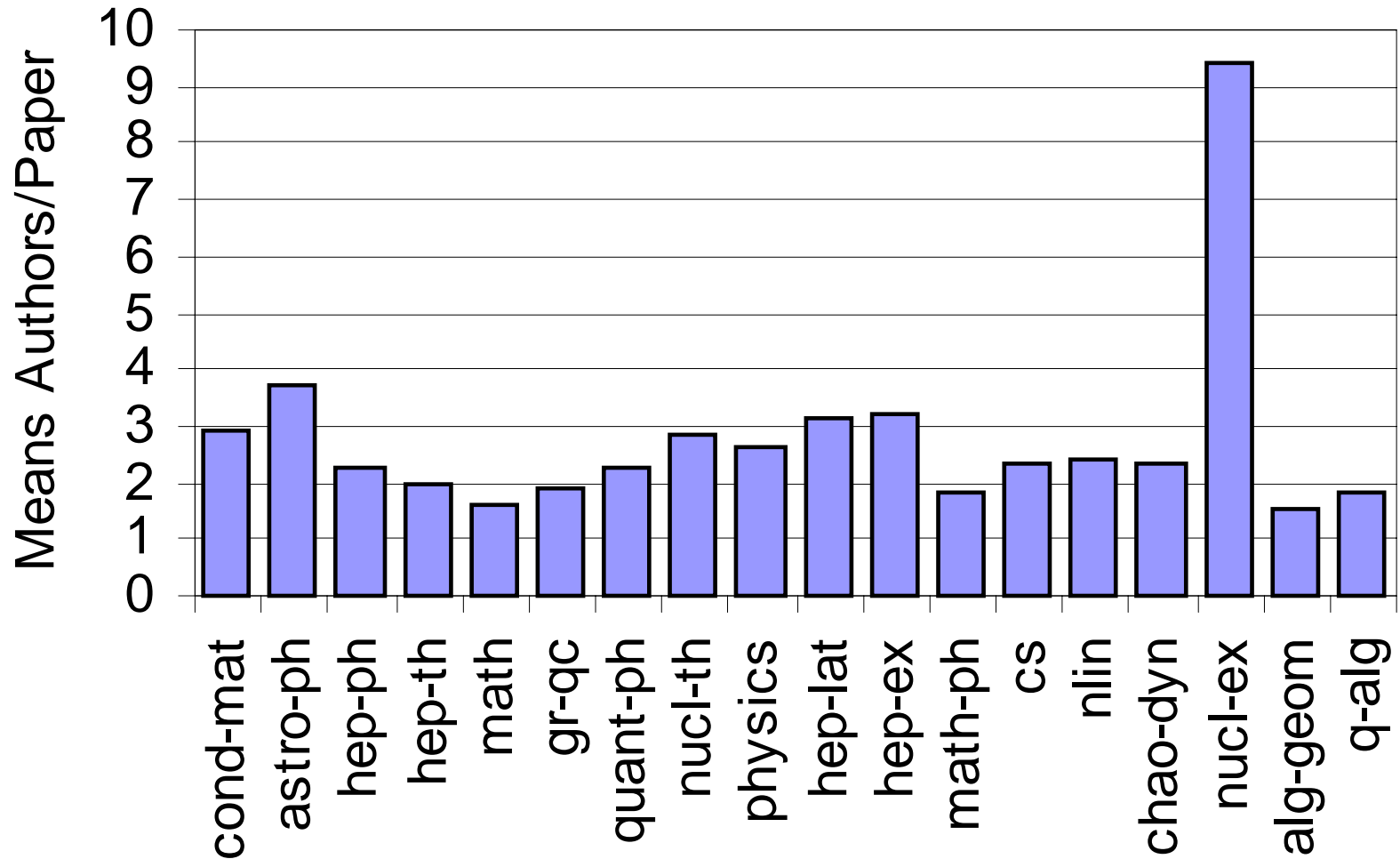
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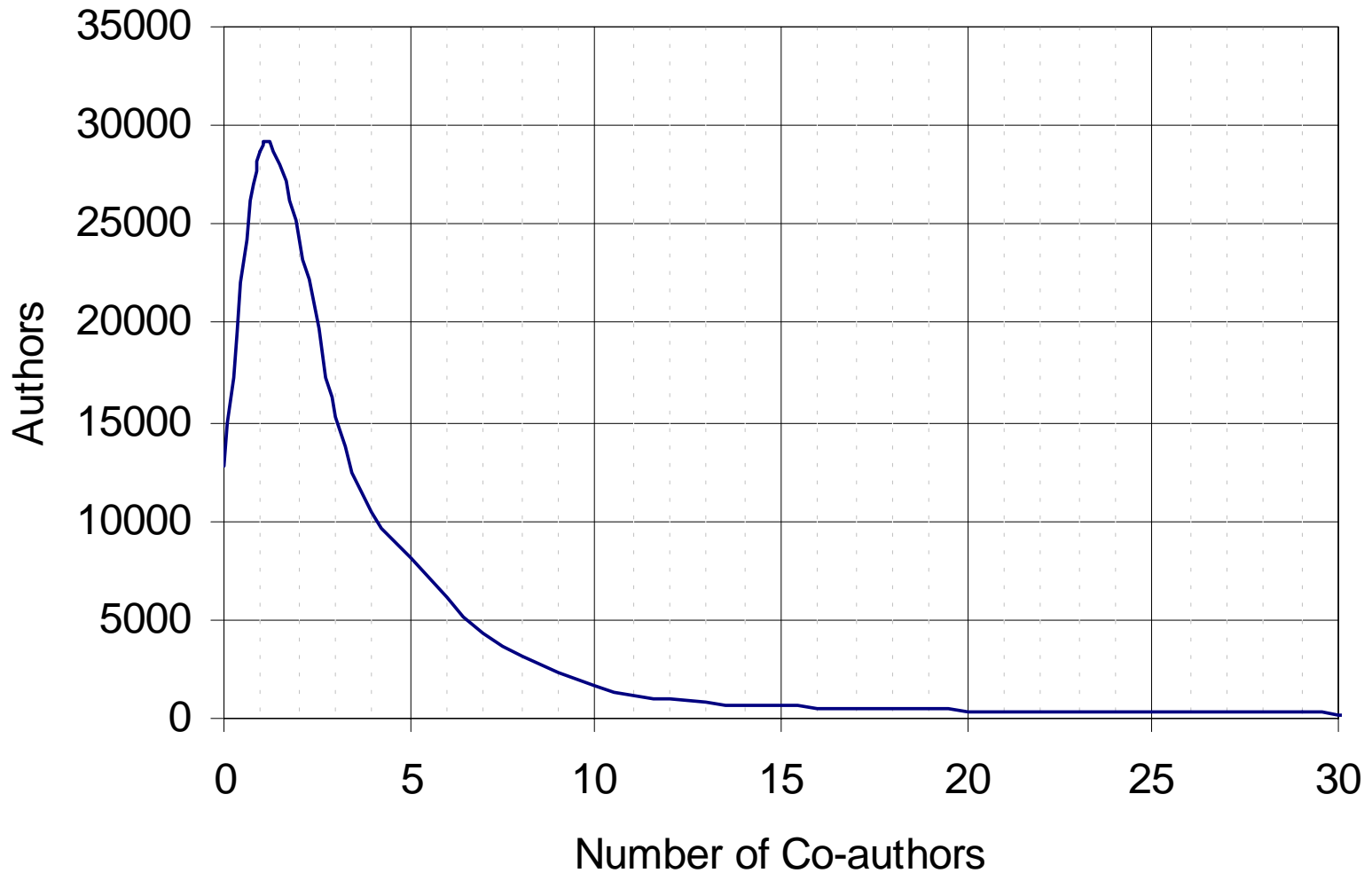
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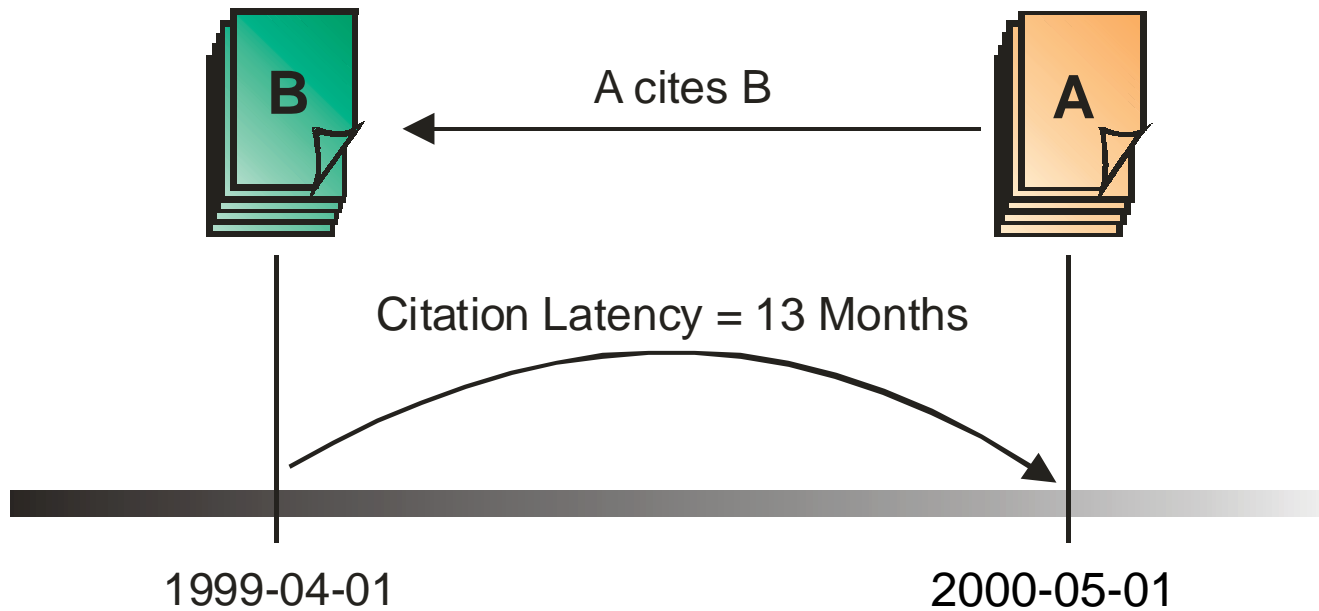
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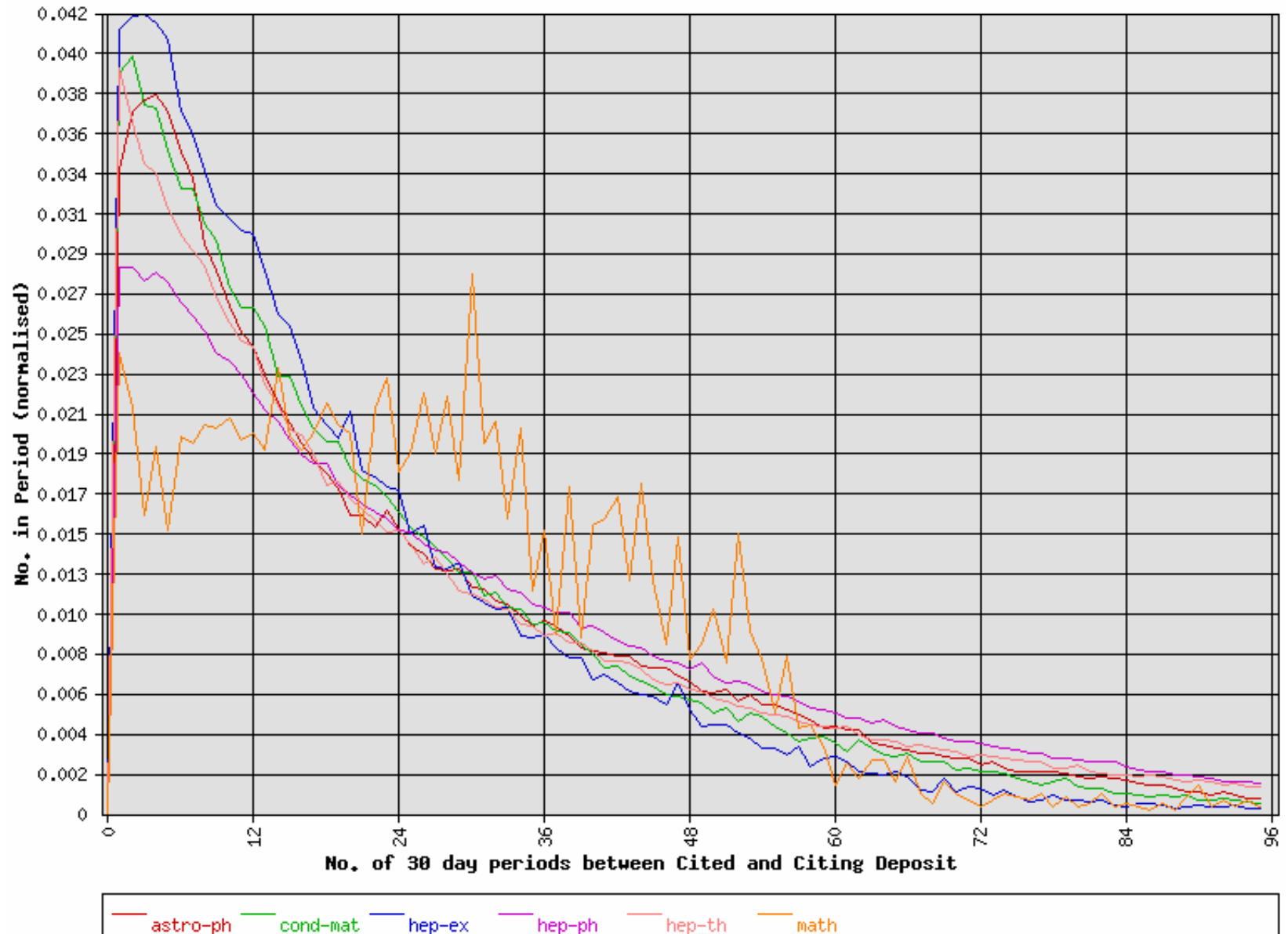


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