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A new window on arXiv content

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-
- **Institute of Physics is a membership organisation devoted to increasing the understanding and application of physics**
 - Supporting physics and physicists
 - Supporting scientific communication
 - Supporting peer review and 'journals'
 - **eprintweb is part of the above mission**

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Announcement

The format of article identifiers for new submissions will change from 1 April 2007, due to a new identification system introduced throughout the arXiv.org. [More information is available](#) to help you familiarize yourself with the new format.

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Astrophysics (astro-ph)	41	194
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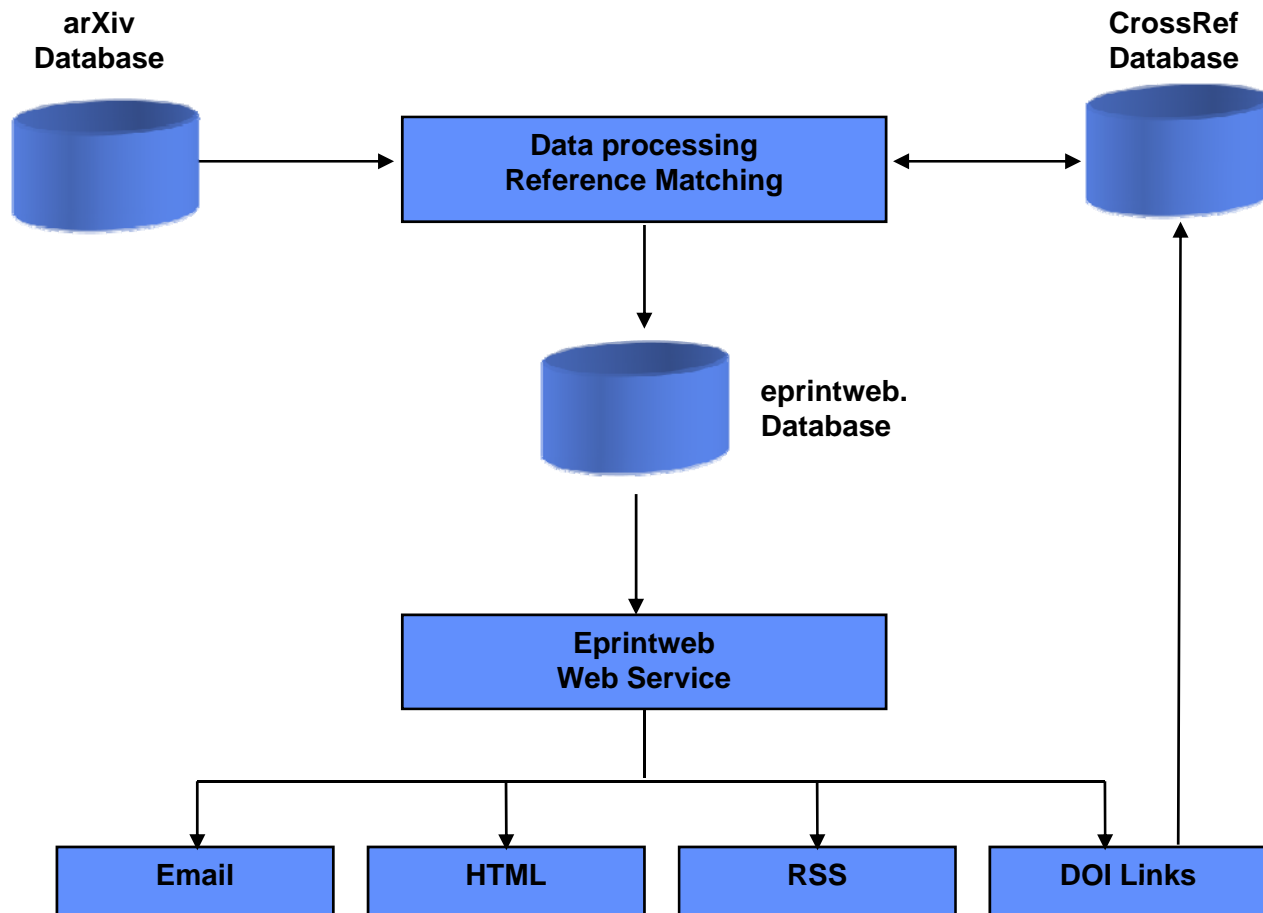
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- **New search and browse interface**
 - Based on content posted to arXiv
 - 420,000 items
- **Features**
 - Author indexing and browsing
 - Fast clean interface
 - Linking to peer reviewed item and reference links
 - RSS feeds
 - Personalisation (email alerts, bookmarking)

eprintweb.org: current status

- **March 2007**
 - 76,000 unique visitors
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 - 200,000 source items matched using DOI (via CrossRef)
 - 8,300,000 references linked (via DOI)

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Abstract

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cond-mat/0701002 (January 2007)

 β -NMR of Isolated $^8\text{Li}^+$ Implanted into a Thin Copper Film

[Z. Salman](#), [A. I. Mansour](#), [K. H. Chow](#), [M. Beaudoin](#), [I. Fan](#), [J. Jung](#), [T. A. Keeler](#), [R. F. Kiefl](#), [C. D. P. Levy](#), [R. C. Ma](#), [G. D. Morris](#), [T. J. Parolin](#), [D. Wang](#) and [W. A. MacFarlane](#)

Received. 29 December 2006 **Last updated.** 29 December 2006

Abstract. Depth-controlled β -NMR was used to study highly spin-polarized ^8Li in a Cu film of thickness 100 nm deposited onto a MgO substrate. The positive Knight Shifts and spin relaxation data show that ^8Li occupies two sites at low temperatures, assigned to be the substitutional (SS) and octahedral (OO) interstitial sites. Between 50 to 100 K, there is a site change from OO to SS. The temperature dependence of the Knight shifts and spin-lattice relaxation rates at high temperatures, i.e. when all the Li are in the SS site, is consistent with the Korringa Law for a simple metal.

Categories. cond-mat.str-el

Subject. Strongly Correlated Electrons

Comment. Accepted for publication in Phys. Rev. B

Journal-ref. Phys. Rev. B 75, 073405 (2007)

Published Article doi: [10.1103/PhysRevB.75.073405](https://doi.org/10.1103/PhysRevB.75.073405)

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Critical Current of Type-II Superconductors in a Broken Bose Bose Glass StateJ. P. Rodriguez [arXiv:0704.1536](#) (April 2007)**References**

Links to published articles are provided to the publishers web site (access is subject to subscription status).

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Correspondence between kinematical backreaction and scalar field cosmologies - the 'morphon field'

Thomas Buchert, Julien Larena, Jean-Michel Alimi gr-qc/0606020 (June 2006)

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The citations are based on preprints held within the arXiv database and articles published by IOP Publishing.

The possibility of cosmic acceleration via spatial averaging in Lemaitre-Tolman-Bondi modelsAseem Paranjape and T P Singh *Class. Quantum Grav.* 23 (2006) [Article] ←**Accelerated expansion from structure formation**Syksy Räsänen *J. Cosmol. Astropart. Phys.* 2006 (2006) [Article]**Can a dust dominated universe have accelerated expansion?**

H. Alnes, M. Amarguioui, O. Gron astro-ph/0506449 (2005) [Preprint] ←

Explicit Cosmological Coarse Graining via Spatial Averaging

Aseem Paranjape, T. P. Singh astro-ph/0609481 (2006) [Preprint]

Scaling Cosmologies of N=8 Gauged Supergravity

Jan Rosseel, Thomas Van Riet, Dennis B. Westra hep-th/0610143 (2006) [Preprint]

On causality and superluminal behavior in classical field theories. Applications to k-essence theories and MOND-like theories of gravity

Jean-Philippe Bruneton gr-qc/0607055 (2006) [Preprint]

The Possibility of Cosmic Acceleration via Spatial Averaging in Lemaitre-Tolman-Bondi Models

Aseem Paranjape, T. P. Singh astro-ph/0605195 (2006) [Preprint]

Accelerated expansion from structure formation

Syksy Rasanen astro-ph/0607626 (2006) [Preprint]

Gauge Invariant Treatment of the Energy Carried by a Gravitational Wave

Philip D. Mannheim gr-qc/0601032 (2006) [Preprint]

The Spatial Averaging Limit of Covariant Macroscopic Gravity - Scalar Corrections to the Cosmological Equations

Aseem Paranjape, T. P. Singh ar-qc/0703106 (2007) [Preprint]

Repositories and publishers: recognising complementary strengths

- **arXiv provides a highly valued service**
 - core for HEP community and others
- **eprintweb – extends that value**
- **Physicists also value journal prestige and authority**
- **Journals add:**
 - peer review & quality standards
 - editing & formatting
 - standards of trust & accuracy
 - indexing & linking
 - archiving
 - filtering & community building
- **Journals and arXiv continue to grow**

Weaknesses

- **Physics is non-homogeneous**
 - What works for HEP won't necessarily work for semiconductor physics
 - E-print culture varies
 - Behavioural norms + technical issues (e.g. familiarity with and use of TeX).
- **Reference extraction is not always automatic**
- **Naming conventions**
 - Institutions and individuals
- **Data is not well linked into current existing systems, e.g. journals**

Repositories and publishers: collaborative efforts

- **Working together**
 - Interoperability, e.g. citation links
 - Linking journal articles to other data:
 - Software, algorithms, data, multimedia, dissertations
 - see *Inverse Problems* special issues on algorithms and data and software archive
 - Growing number of IOP journal articles include multimedia
 - Version naming conventions e.g. NISO
- **eprintweb collaborators include:**
 - Cornell University Library
 - CrossRef
 - ADS
 - Verity K2 software (search partner)

Possible future plans

- **Continued collaboration with Cornell University Library**
- **New communities**
 - Extend into new subject areas
 - Raise awareness
 - Increase usage
 - Tools for non-TeX users (MS-Word)
- **Revisit 'institutional view'**
- **Launch math.eprintweb.org**
 - In development with Institute of Mathematical Statistics
 - To add statistics and probability sections
- **Integrate JET E-Prints service**