

ADS NASA ASTROPHYSICS DATA SYSTEM

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ADS NASA ASTROPHYSICS DATA SYSTEM

The **Astrophysics Data System**

is a library portal for researchers in astronomy and (geo-)physics, offering access to bibliographic databases in astronomy and physics, and to the ArXiv repository.

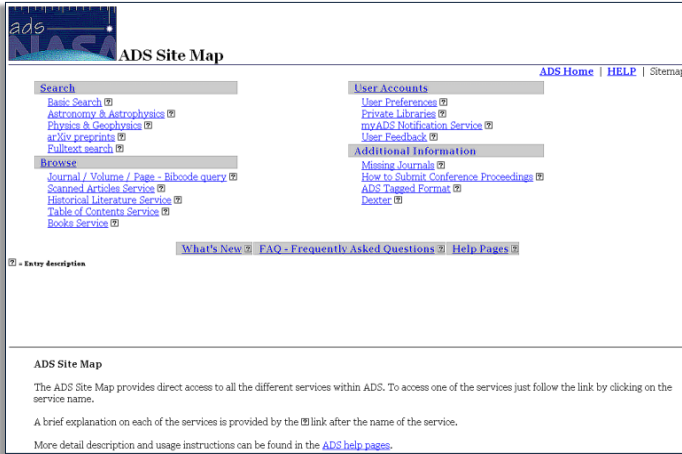
The more than 7.5 million bibliographical records are searchable with a versatile user interface that also allows for the efficient extraction of bibliographic information in various formats. A subset of the data is accessible even for full-text searches.

The databases are updated weekly.

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A brief explanation on each of the services is provided by the ⓘ link after the name of the service.

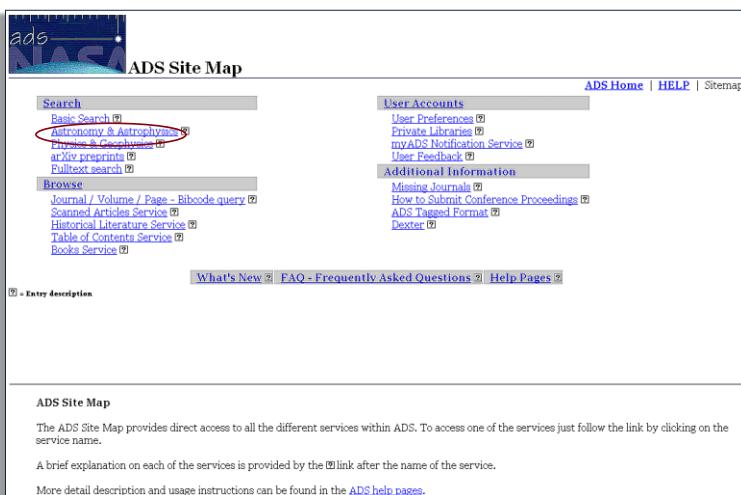
More detail description and usage instructions can be found in the [ADS help pages](#).

A good starting point to demonstrate some of the important ADS features is the [ADS Site Map](#)

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ADS SEARCH IN ASTRONOMY & ASTROPHYSICS



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ADS SEARCH FORM

SAO/NASA ADS Astronomy Query Form for Tue May 26 04:06:14 2009

[Sitemap](#) [What's New](#) [Feedback](#) [Basic Search](#) [Preferences](#) [FAQ](#) [HELP](#)

To launch the search, press „Send Query“

How was that author Rysziak spelled? Check the [author list](#) or use the [Soundex phonetic search](#)

Databases to query: Astronomy Physics arXiv e-prints

SIMBAD NEB ADS Objects

Exact name matching Object name/position search
 Require author for selection Require object for selection
 (Combine with: OR AND simple logic)

Require title for selection
 (Combine with: OR AND simple logic boolean logic)

Require text for selection
 (Combine with: OR AND simple logic boolean logic)

Return items starting with number

Author search with multiple query logic

Word search in titles of articles with multiple query logic

Word search in abstracts and keyword sections of articles with multiple query logic

Selection of databases for object searches

Object search with multiple query logic

Clicking a blue-underlined descriptor displays the appropriate manual entry

wildcard searches with „*“ and „?“ are enabled

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ADS STRUCTURE OF RESULT LISTS

5	<input type="checkbox"/> 2006MNRAS.371..659J	1.000	09/2006	A E F X	R C S U	Jeffery, C. S.; Saio, H.
	Fe-bump instability: the excitation of pulsations in subdwarf B and other low-mass stars					
6	<input type="checkbox"/> 2003whdw.conf..53J	1.000	00/2003		I B U	Jeffery, C. S.; Saio, H.
	The progeny of binary white dwarf mergers					
7	<input type="checkbox"/> 2002MNRAS.333..121S	1.000	06/2002	A E F S	R C S U	Saio, Hideyuki; Jeffery, C. Simon
	Merged binary white dwarf evolution: rapidly accreting carbon-oxygen white dwarfs and the progeny of extreme helium stars					

Link to bibliographic ADS record

Link to abstract

Link to electronic fulltext article

Link to printable (PDF) full text

Link to ArXiv e-print version of article

Relevance

Publication date

References in the article

Citations to the article

SIMBAD Object DB link

Also-read articles

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ADS STRUCTURE OF A BIBLIOGRAPHIC RECORD

SAO/NASA ADS Astronomy Abstract Service

- [Find Similar Abstracts \(with default settings below\)](#)
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- [Full Refereed Journal Article \(PDF/Postscript\)](#)
- [arXiv e-print \(arXiv.org-ph/0606594\)](#)
- [References in the article](#)
- [Citations to the Article \(c\)](#) ([Citation History](#))
- [Refereed Citations to the Article](#)
- [SIMBAD Objects \(o\)](#)
- [Also-Read Articles \(Reads History\)](#)
- [Translate This Page](#)

Options to view the full text; access might depend on the journal licences available locally.

Title: Fe-bump instability: the excitation of pulsations in subdwarf B and other low-mass stars
Authors: [Jeffery, C. S.](#); [Saio, H.](#)
Affiliation: AA(Armagh Observatory, College Hill, Armagh BT61 9DG Astronomical Institute, School of Science, Tohoku University, Sendai 980-8578, Japan); AB(Armagh Observatory, College Hill, Armagh BT61 9DG Astronomical Institute, School of Science, Tohoku University, Sendai 980-8578, Japan);
Publication: Monthly Notices of the Royal Astronomical Society, Volume 371, Issue 2, pp. 659-672. ([MNRAS Homepage](#))
Publication Date: 09/2006
Origin: [MNRAS](#)
MNRAS Keywords: stars: chemically peculiar: stars: early-type: stars: horizontal branch: stars: oscillations: subdwarfs: stars: variables: other
Abstract Copyright: (c) 2006 The Authors. Journal compilation © 2006 RAS
DOI: [10.1111/j.1365-2966.2006.10686.x](#)
Bibliographic Code: 2006MNRAS.371..659J

Abstract

We consider the excitation of radial and non-radial oscillations in low-mass B stars by the iron-bump opacity mechanism. The results are significant for the interpretation of pulsations in subdwarf B stars, helium-rich subdwarfs and extreme helium stars, including the EC14026 and PG1716 variables. We demonstrate that, for radial oscillations, the driving mechanism becomes effective by increasing the contrast between the iron-bump opacity and the opacity from other sources. This can be achieved either by increasing the iron abundance or by decreasing the hydrogen abundance. The location of the iron-bump instability boundary is found to depend on the mean molecular weight in the envelope and also on the radial order of the oscillation. A blue instability boundary is provided by increasing the iron abundance alone, rather than the entire metal component, and is required to explain the observed EC14026 variables. A blue instability boundary is also provided by higher radial order oscillations. Using data for observed and theoretical period ranges, we show that the coolest EC14026 variables may vary in the fundamental radial mode, but the hottest variables must vary in modes of higher radial order.

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ADS EXPORT OF BIBLIOGRAPHIC INFORMATION

To export bibliographic information:

Select from the options that are given *below the last bibliographic item on the result page*

15 [1998ApJ...328..714S](#) 1,000 05/1988 [A](#) [E](#) [G](#) [R](#) [C](#) [S](#) [U](#)
 Saio, Hideyuki; Radial pulsation in luminous hot helium stars
 Jeffery, C. Simon

or select individual records above for the retrieval options below

Retrieve the above records in other formats or sort order

Choose between various export formats and export destinations

Return:

Sort by:

Use: Authors Titles Key words Abstract
 Return: Results Form for manual query

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ADS FULLTEXT SEARCH

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ADS FULL TEXT SEARCH FORM

Search for words or phrases in the full text of articles in ADS;
wildcard use and phrase definitions essentially follow Google style.

N.B.: ADS searches support synonym replacement, stop-word elimination and some search-word translations.

Databases to search:

- ADS Fulltext Search** (all scanned journals)
- Blackwell (MNRAS)
- EDP Sciences (A&A)
- National Academy of Science (PNAS)
- University of Chicago Press (Currently Unavailable, please search their site separately)
- Nature (Nature, Nature Physics, Nature Physical Science)
- Astronomical Society of Japan (PASJ)

"Big Bang"

Publication Date between 1940 and 1970
(MM) (YYYY) (MM) (YYYY)

Sort result list by

- Popularity
- Most recent first
- Oldest first
- All pages (including covers, etc)
- Article pages only

Select from

Journal Code for selection:

Number of records to retrieve:

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ADS RESULTS OF A FULL-TEXT SEARCH

Full Text Query Results from the ADS Database

External search systems queried: none
Selected and retrieved **189** articles.

ASPL, 8, 33 (1959): [Alchemy in the Stars](#)
Page 34
... minutes of the universe's existence

ASPL, 8, 303 (1961): [Large Radio Telescopes](#)
Page 304
... point of observing may decide on

AJ, 66, 590 (1961): [On the possible influence of a general](#)
Page 590
Page 602
... the 'big bang', as an inevitable and
... On the contrary, the 'big bang' as a

AJ, 66, 603 (1961): [The exchange of galaxies between of](#)
Page 603
... to conclude from the Hubble law th

SAO/NASA Astrophysics Data System (ADS)

Title: Alchemy in the Stars
Authors: Phillips, J. G.
Journal: Astronomical Society of the Pacific Leaflets, Vol. 8, p.33
Bibliographic Code: 1959ASPL.....8...33P
[Complete bibliographic record](#) [Other articles](#)

composition. Most celestial objects seem to be composed mainly of hydrogen and helium; about 87 percent of their atoms are hydrogen and 12 percent are helium. Carbon, nitrogen, and oxygen account for about half of the remainder, while the heavier elements can be considered as slight irregularities in the essentially hydrogen universe. Although, in general, the heavier elements are less abundant, certain interesting irregularities in the abundance-atomic weight curve are evident. The most conspicuous of these irregularities is a marked peak of abundance for elements with atomic weights in the neighborhood of that of iron.

The uniformity of the cosmic abundance ratio of the chemical elements in different celestial bodies (excepting certain interesting abnormal objects that will be considered later) has naturally interested astronomers and physicists, who have considered various ways by which this ratio could have been established.

Three principal approaches to the origin of the elements have been proposed. (1) The explosion theory was suggested by Gamow and others about ten years ago. If the universe is supposed to be in the process of expanding uniformly from an original instant of time when the material was so highly compressed and at such high temperatures that only fundamental particles such as protons, neutrons, and electrons (a mixture called "feyn" by Gamow) could exist, then the cosmic abundance ratio must have been established during the first few minutes of the universe's existence after the "big bang," when conditions were favorable for the

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*A customisable
journal shelf
(for astronomy only)*

The journals that are to be monitored can be selected by the user in his/her myADS account.

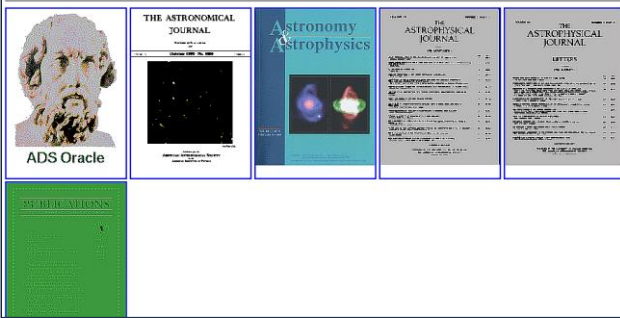
ToC query page shows the front pages of only those journals that have unread issues.

[SAO/NASA ADS Customized Table of Contents Query Page for Alfred Gautschy](#)
 Provided by the [SAO/NASA Astrophysics Data System](#) (ADS) Abstract Service

This form provides access to the latest volumes of selected journals. It shows only the journals for which you have not yet read the...
 You can select which journals should be included on this form from the [Preference Settings Form](#).

An [ASCII version](#) of this page is available.
 The regular [Table of Contents query form](#) as well as an [ASCII version](#) are available.

Catchup This button marks all journals as completely read.



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ADS EXAMPLE OF A PRIVATE LIBRARY

The ADS portal has the provisions to collect and store articles in private libraries. Private notes can be attached to bibliographic entries.

This is a useful tool for collecting bibliographies during the process of scientific writing, for instance, or for keeping track of articles relevant to different study subjects.

The links to the private libraries are public links, i.e. the links can be shared with other people so that they can look at these libraries. However, only the maintainer of a library can modify it and read the private notes.

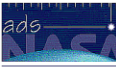
Private Library [Photometry](#) (Main papers for photometric systems) for ADS User (the link on the library name is a [Go to bottom of public link to this library](#))

Selected and retrieved 3 abstracts. Sort options

#	Bibcode Authors	Score Title	Date	List of Links Access Control Help
1	<input type="checkbox"/> 1996AJ...111.1748F Fukugita, M.; Ichikawa, T.; Gunn, J. E.; Doi, M.; Shimasaku, K.; Schneider, D. P.	1.000 The Sloan Digital Sky Survey Photometric System	04/1996	A E G B C S U H
<i>Private Note: I need these values for my next article</i>				
2	<input type="checkbox"/> 1992AJ...104..340L Landolt, Arlo U.	1.000 UBVRI photometric standard stars in the magnitude range 11.5-16.0 around the celestial equator	07/1992	A E G D R C S Q U H
<i>Private Note: Standards for my calibrations</i>				
3	<input type="checkbox"/> 1988PASP..100.1134B Bessell, M. S.; Brett, J. M.	1.000 JHKLM photometry - Standard systems, passbands, and intrinsic colors	09/1988	A E G R C S U H
<i>Private Note: Basic standards</i>				

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ADS MYADS NOTIFICATION SERVICE



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ADS MYADS NOTIFICATION SERVICE

MyADS: daily/weekly notifications (per email) about new articles on user-specified topics

SAO/NASA ADS myADS
myADS Notification Service

On this form you specify your name, and the database(s) for which you intend to use this profile. You can specify separate profiles for the separate databases, or use the same profile for all databases.

First name: Last name:

Your name is used to query the database for recent citations to your articles. If you do not want to execute that query in the notification service, and wish to remain anonymous, you can omit your name.

Set/modify queries for: Astronomy Physics arXiv e-prints
Select the databases for which you want to set/modify the queries. The same queries will be set for all databases that you select above

Databases currently set: Astronomy Physics arXiv e-prints
Disable email for: Astronomy Physics arXiv e-prints
You can temporarily disable the notification by email (eg when on vacation). Make sure you click on "Save Settings" after you change this selection.

UserID: 295687156
Proxy Server:

Proxy servers can be used if your library/ university uses a proxy server system to handle journal subscriptions. If a simple replacement of the ADS hostname with the proxy server is sufficient to handle your proxy system, then you can specify the name of the proxy server here. The name has to include the leading <http://>.

select ArXiv groups to be considered

select journals to be considered

[Login](#) -> [Name](#) -> [Query 1](#) -> [Query 2](#) -> [Preprint topics](#) -> [Journals](#) -> [myADS Results](#) [myADS Help](#)

Provide keyword for queries

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ADS MYADS

Journals to choose from for the notification service

The following selects the [journals](#) for the links on the results page of the [Astronomy myADS](#):

<input checked="" type="checkbox"/> AJ	<input type="checkbox"/> AN	<input checked="" type="checkbox"/> A&A	<input type="checkbox"/> A&AS	<input checked="" type="checkbox"/> ApJ
<input checked="" type="checkbox"/> ApJL	<input type="checkbox"/> ApJS	<input checked="" type="checkbox"/> BaltA	<input type="checkbox"/> AAS	<input type="checkbox"/> CoSka
<input type="checkbox"/> GeCoA	<input type="checkbox"/> Icar	<input type="checkbox"/> M&PS	<input checked="" type="checkbox"/> MNRAS	<input type="checkbox"/> NewA
<input type="checkbox"/> PASA	<input checked="" type="checkbox"/> PASJ	<input checked="" type="checkbox"/> PASP	<input type="checkbox"/> E&PSL	<input type="checkbox"/> JGRE
<input type="checkbox"/> JGRA	<input type="checkbox"/> PEPI	<input type="checkbox"/> P&SS	<input type="checkbox"/> SoPh	<input type="checkbox"/> Sci
<input type="checkbox"/> Natur	<input type="checkbox"/> ARA&A	<input type="checkbox"/> GApFD		

The following selects the [journals](#) for the links on results page of the [Physics myADS](#):

<input type="checkbox"/> ASAJ	<input type="checkbox"/> ApPhA	<input type="checkbox"/> ApPhB	<input type="checkbox"/> ApPhL	<input type="checkbox"/> ChPhL
<input type="checkbox"/> ChPhy	<input type="checkbox"/> EPJA	<input type="checkbox"/> EPJB	<input type="checkbox"/> EPJC	<input type="checkbox"/> EPJD
<input type="checkbox"/> GeoRL	<input type="checkbox"/> IJMPA	<input type="checkbox"/> IJMPC	<input type="checkbox"/> IJMPC	<input type="checkbox"/> IJMPCD
<input type="checkbox"/> IJMPE	<input type="checkbox"/> JAP	<input type="checkbox"/> JChPh	<input type="checkbox"/> JGRA	<input type="checkbox"/> JGRB
<input type="checkbox"/> JGRC	<input type="checkbox"/> JGRD	<input type="checkbox"/> JGRE	<input type="checkbox"/> JGRF	<input type="checkbox"/> JHEP
<input type="checkbox"/> JPhA	<input type="checkbox"/> JPhB	<input type="checkbox"/> JPhD	<input type="checkbox"/> JPhG	<input type="checkbox"/> JPCM
<input type="checkbox"/> JVST	<input type="checkbox"/> NIMPA	<input type="checkbox"/> NIMPB	<input type="checkbox"/> NuPhA	<input type="checkbox"/> NuPhB
<input type="checkbox"/> PhLA	<input type="checkbox"/> PhLB	<input type="checkbox"/> PhRvA	<input type="checkbox"/> PhRvB	<input type="checkbox"/> PhRvC
<input type="checkbox"/> PhRvD	<input type="checkbox"/> PhRvE	<input type="checkbox"/> PhRvL	<input type="checkbox"/> PhyA	<input type="checkbox"/> PhyB
<input type="checkbox"/> PhyC	<input type="checkbox"/> PhyD	<input type="checkbox"/> PhyE	<input type="checkbox"/> Sci	<input type="checkbox"/> Natur

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ADS ADDITIONAL HELP

For in-depth information and the coverage of additional aspects, consult:

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Frequently asked questions

Quick start guide

Detailed ADS manual

ADS COURSES AND CONTACT

Hands-on courses on ADS are offered on request.
For an appointment or for personal help please contact:

Dr. Alfred Gautschy, gautschy@library.ethz.ch,
phone: +41 44 632 07 92

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