ECS PGRs – Faculty of Engineering & Physical Sciences

Finding information for your research

Fiona Nichols 2018/19
Learning Objectives
By the end of this session you will know how to…

• Identify key Library services available on LibGuides@Southampton
• Explain the features of a good search strategy
• Identify routes for accessing full text articles and reports
• Describe key principles of managing your information through
  – evaluating and managing information
  – keeping up to date
Exploring LibGuides@Southampton
• Your **ORCID iD** is a free unique researcher identifier, required by some publishers and funders
  – Register via Pure
  – You control what information your ORCID iD contains
  – Find out more: [http://library.soton.ac.uk/orcid](http://library.soton.ac.uk/orcid)

**Benefits to you?**
• Improves discoverability
• Connects your work
• Eliminates name ambiguity
• Stays with you throughout your career
GradBook courses

- E-theses
- Endnote
- Keeping up to date
- Open access
- Copyright
- Bibliometrics
- Data management
Catalogues

• Library Search – on-line catalogue of books, journals, conference proceedings, theses and other material held by University of Southampton
• COPAC - the combined catalogue of major UK university libraries
Library Search

1. Enter search terms/words

2. Limit your search by choosing an option from the drop-down menu, such as Everything, Books and More, Articles and Databases, Course Collections, or to specific formats of information.

3. Choose to either search All Fields or limit your search to author, title, subject, keyword or ISBN.

4. Click Search to carry out your search. The results screen gives you the option to view either Books & More or Articles & Databases.


Articles & Databases covers journal articles, e-books, databases, conference papers and more.

Or you can try an Advanced Search (see our Library Search Advanced Guide).
Demonstration

- Log on to Sussed, select the Library tab and then LibGuides
- Use the 1st page of the worksheet and follow the steps being demonstrated
Research information needs to be:

- High quality – peer reviewed
- Up to date
- Relevant
- Discovered through a comprehensive literature review
Access to resources
Why databases?

Because they

• link to up to date information from peer reviewed publications
• are usually well indexed enabling you to search in detail
• contain abstracts summarising the articles retrieved
• often link directly to the full text if it is available electronically
Searching effectively:
Devise a search strategy

- Look at your own project topic or ‘search statement’ and devise a search strategy by selecting relevant keywords or concepts
- Break down topic into components
- Identify keywords, synonyms, alternative spellings & related terms
- List relevant headings

Go to Planning your literature search for detailed help

Then... put the search strategy into practice in the different databases and compare the results
Anatomy of a literature search

- Create a search strategy
- Identify relevant databases
- Conduct a search
- Check results for relevance
- Refine or change search strategy as required
- Obtain the items from library resources
Searching techniques:

- **Boolean logic** - add or combine terms
  - AND, OR, NOT

- **Truncation and wildcards**
  - Symbols vary e.g. electron*

- **Phrase searching**
  - Enclose in quotes “black body radiation”
Refining and shape your results

- New search strategy with revised concepts and keywords

OR

- Narrow your initial search using the ‘Refine’ options on the search screen
  - the controlled vocabulary terms are trusted terms giving precise search results
  - open access options
  - plus many more
Focusing graphical user interfaces in model-driven software development

Link, Stefan (Research Group Cooperation and Management, Universität Karlsruhe (TH), 76128 Karlsruhe, Germany); Schuster, Thomas; Hoes


Database: Compendex

Document type: Conference article (CA)

Detailed: Show preview

Cited by in Scopus (24)
ECS Subject Databases

Subject databases such as
- Compendex (Engineering Village)
- Inspec
- Web of Science Core Collection
- Scopus
- and more

can be found at
http://library.soton.ac.uk/ecs/articles
Select from the drop down box for the list of databases available on the Web of Science Platform.
Finding the documents

• Full text links from databases (may not have a subscription)
• Full Text Finder
• Library Search
• Inter Library Loan (ILL)
Finding Open Access articles

• If you hit a paywall try these tools to find legal open access copies from publisher websites and institutional & subject repositories:
  – Unpaywall http://unpaywall.org/
  – Open Access Button https://openaccessbutton.org/
  – Kopernio https://kopernio.com/ (also finds subscription content via your institutional login)
Exceptions

• Items not individually catalogued

  – Patents
  – BSI/IEC standards
  – IET/IEEE conferences and standards (IEEEExplore)
  – Freely available material e.g NASA Technical Reports
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<thead>
<tr>
<th>Subjects A - E</th>
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<tr>
<td>Accounting</td>
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<td>English</td>
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<td>Jewish Studies</td>
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<td>Modern Languages</td>
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Searching databases

- Carry out the topic and author searches on the worksheet.
Managing the material

• Save search histories
• Download relevant material (ensuring you comply with copyright)
• Export references to bibliographic software
• Reference consistently and with the system recommended by your Academic Unit
• Save searches and alerts
Saved searches, alerts, search histories

- Register with each provider to take advantage of these tools
Advanced searching techniques

- Using cited references
- Controlled Index (thesaurus)
Citation Searching

- Earlier articles
- More recent articles

Key paper

Articles referenced in key paper

Articles referencing key paper
• Starting with a known item eg article – finds other articles that are related to it via the citation
• ie it connects articles to each other rather than subject terms
Exploring cited references

• Do the exercise on the worksheet
Gravitational-wave inspiral of compact binary systems to 7/2 post-Newtonian order

By: Blanchet, L (Blanchet, L.), Faye, O (Faye, O.), Iyer, B R (Iyer, B R.), Jaguad, B (Jaguad, B.)

Physical Review D
Volume: 65 Issue: 6
Article Number: 061501
DOI: 10.1103/PhysRevD.65.061501
Published: Mar 15 2002
View Journal Information

Abstract
The inspiral of compact binaries, driven by gravitational radiation reaction, is investigated through 7/2 post-Newtonian (3.5PN) order beyond the quadrupole radiation. We outline the derivation of the 3.5PN-accurate binary’s center-of-mass energy and emitted gravitational flux. The analysis consistently includes the relativistic effects in the binary’s equations of motion and multiple moments, as well as the contributions of tails, and tails of tails, in the wave zone. However, the result is not fully determined because of some physical incompleteness, present at the 3PN order, of the model of point particles and the associated Hadamard-type self-field regularization. The orbital phase, whose prior knowledge is crucial for searching and analyzing the inspiral signal, is computed from the standard energy balance argument.

Keywords
KeyWords Plus: SCHWARZSCHILD BLACK HOLE, POINT-MASS SYSTEMS, CIRCULAR ORBIT, RADIATION REACTION, 2-BODY SYSTEMS, 2ND-POST-NEWTONIAN ORDER, NONSPINNING BODIES, COALESCING BINARY, ENERGY-LOSS, PARTICLE

Author Information
Reprint Address: Blanchet, L (reprint author)
+ Observe Paris, CNRS, UMR 8029, Dept Astrophys Relativiste & Cosmol, F-92195 Meudon, France.
Addresses:
Author Identifiers:

Citation Network
196 Times Cited
577 References
View Related Records
- View Citation Map
- Create Citation Alert
(data from Web of Science Core Collection)

All Times Cited Counts
196 in All Databases
196 in Web of Science Core Collection
0 in BIOSIS Citation Index
0 in Chinese Science Citation Database
0 in Data Citation Index
0 in Scielo Citation Index

Most Recent Citation
View All

This record is from:
Web of Science Core Collection
These articles cite the ‘parent’ article.
Controlled (Thesaurus) terms

• Terms added to a record taken from a fixed list (thesaurus)
• Searching these makes results more relevant by
  – more precise - avoids concepts mentioned in passing
  – retrieving material containing alternative terms
  – more manageable numbers
Demonstration

• Using the INSPEC thesaurus

• Controlled terms: Key concepts in a given article that are assigned to records at a most specific level

• Uncontrolled terms: assigned to give additional descriptive terms for a record

• See worksheet
Working off campus?

Use the SVE (Southampton Virtual Environment) when working away from campus. Access ..

• all your files
• popular pieces of software
• Library databases and resources

..by installing VMware Horizon Clients software
Get Help…

• Email us: libenqs@soton.ac.uk

• Go to your subject pages: library.soton.ac.uk/ecs

• Ask at library help desks

• Ask a Librarian: live chat

Chat with us

The library chat service is staffed 10am - 5pm UK time Monday to Friday

You will be asked to log in using your university password. If you don't have one, you can send your question to libenqs@soton.ac.uk
http://library.soton.ac.uk/research

Library Deskside Training: Home
information and online booking from for the Library Deskside Training service

Why deskside?
We recognise that researchers need access to a wide range of online resources, many of which are provided by the Library - yet researchers are also extremely busy, so finding the time to get advanced training in everything that the Library has to offer can be difficult.

Online help
For some appointments we can offer help online and guide you through resources as you view them onscreen.

Who is eligible to use this service?
The deskside training service is available to staff (University, NHS and NERC) and research postgraduates only.
If you are an undergraduate or taught postgraduate student, please contact your Academic Liaison Librarian directly if you need help with library resources (contact details available on your LibGuides@Southampton subject page).

Make an appointment
Apply for your deskside training sessions online:
- To make a request for training, complete our booking form - you should receive a reply within two working days
Enquiries and getting help:
- email library.deskside@soton.ac.uk

What do we cover?
We aim to provide training on a wide range of information resources useful to researchers, such as:
- Literature searching using specialist databases:
  - Web of Science, British Humanities Index, Medline, Aquatic Informa, Food Science & Technology Abstracts

Feedback from previous users of the service
"All of my questions were answered allowing me to completely use Endnote for writing my thesis. Knowledge of trainer and delivery was very good. Thanks!"

"Really helpful. I think the main thing to say is that one comes away with a much higher level of confidence."

"The session [...] was very helpful. I wish that I had approached her beforehand as she was able to answer all my questions [and] guide me towards a better way of searching. Many thanks."

"I learned a great deal which I can use in my teaching and research activities and pass onto students. Thanks."

"I found it very relaxing being able to have a training session in my own working environment and on a one to one basis. I could ask questions relevant to my work and would not have any problems contacting you for assistance in future."
Academic Skills Hub

The Academic skills Hub offers:

- One-to-one support ‘drop in’ service
- A wide range of workshops
- Writing skills & support

http://library.soton.ac.uk/sash
YOUR QUESTIONS