

Instructions for Using Bibtex with Latex Documents

Dorothea Frances Brosius
Institute for Research in Electronics and Applied Physics
University of Maryland
College Park, MD 20742-3511

June 27, 2019

Using Bibtex with Latex documents is not hard. The bulk of the work is organizing your bibtex file(s), which is a data base compiled by you of the articles, books, etc. which you frequently use in the bibliographies or reference sections of your publications. You may have several bibtex files, based on your different research interests. The file BibtexSamples.tex contains examples of information needed for the different types of references you may wish to use (e.g., articles in refereed journals, books, unpublished articles, conference proceedings).

The first two pages of this document are instructions for using Bibtex; the remaining pages were taken from a published article and show how the references were cited in the .tex file.

1. Note that the references in the .tex file are cited with the same label which is used in your bib file (e.g.,

```
~\cite{hindmarsh1995}.
```

The reference numbers will be enclosed in brackets (e.g., [1]) in the dvi file.

2. At the end of the document, where you would normally type your references or bibliography, insert the following lines:

```
\newpage \bibliographystyle{unsrt}  
\bibliography{the name of your bib file}
```

In my case I used

```
\newpage  
\bibliographystyle{unsrt}  
\bibliography{Galactic-2,Diorio,Griem-Bibtex}
```

The three bibfiles I used were Galactic-2.bib, Diorio.bib, and Griem-Bibtex.bib.

`\bibliographystyle{unsrt}`

will sort the entries in the order of their first appearance in your text.

3. The names of the authors of papers will appear as they are typed in the bibtex files used (first name spelled out or initials with periods, spaces, or whatever). It makes no difference if the last name is typed first in the bibtex file, the end result is always first name spelled out, or initials, and last name.
4. The name of the journal is automatically italicized.
5. The title of the article has the first word capitalized and the rest lower case even though the entry was upper and lower case letters ("Instructions for Using Bibtex with Latex Documents").
6. In the references at the end of this document the names of the authors are set up as they appear in the various bibtex files used. Try to be consistent when setting up the authors' names in your bibtex file(s) so your references look professional and polished.

After setting up your tex document (in this case, `BibtexInstructions.tex`) and your bibtex documents (in this case, `Galactic-2.bib`, `Diorio.bib` and `Griem-Bibtex.bib`), do the following:

1. Typeset your document
2. Bibtex your document (in PcTex: Tools, Bibliography) (in WinEdt, click on the Bib icon)
3. Typeset your document a second time

Not only will the reference numbers in the dvi file be in brackets (e.g., [1]), but your bibliography will automatically show in your references without your having to type them individually.

I have attached several other files to the pdf file which you are viewing. They are the copies of `Galactic-2.bib` (the bib file used with this document) and `BibtexSamples.tex`. `BibtexSamples.tex` will give an example of the information needed for the various publications you wish to reference. **NOTE: When saving your bibtex file, type parentheses around the filename ("filename.bib"). This keeps the file a bib file and does not automatically save it as a .tex file.** The original .pdf file, the .tex files and the .bib files can be downloaded from <http://www.ireap.umd.edu/ireap/thesis/bibtex> for your use.

Adding doi numbers to your reference: Place the doi number in quotes on the note line of your bib file as shown below.

```
@ARTICLE{hindmarsh1995,  
AUTHOR = "M. B. Hindmarsh and T. W. B. Kibble",  
TITLE = "Cosmic Strings",  
JOURNAL = "Rep. Prog. Phys.",
```

```

YEAR = "1995",
volume = "58",
number = "5",
pages = "477-562",
month = "May",
abstract = "",
keywords = "",
note = "doi: 10.1088/0034-4885/58/5/001",
file = F
}

```

Some standard bibliography styles you may find useful are listed below. "unsrc" was used when typesetting this document.

unsrc Sorts entries in the order in which they appear in the text, first name and last name

acm Sorts entries in the order in which they appear in the text, last name, first name (upper and lower caps)

plain Sorts entries in alphabetical order; places first and second initial before last name

abbrv Sorts alphabetically by last name; places first initial before last name

A list of BibTeX style examples may be found at <http://www.cs.stir.ac.uk/~kjt/software/latex/showbst.html>.

If you have questions concerning Bibtex, please contact me at 301 405-4955 or dbrosius at umd.edu [1].

1 Bibliography entries

hindmarsh1995 [2], genzel2007 [3], morris2004 [4], genzel2002 [5], matzner1990 [6], davis2005 [7], silveira1991 [8], bellan2004 [9], chud1986 [10], copeland1987 [11], lang2004 [12], butler1991 [13], Lang2002 [14], sofue2001 [15], landaumech [16], lang2003 [17], ott2003 [18], Stokes:1847 [19], Stokes:1847 [19], Phillips:1961 [20], Petzler:1984 [21], Phillips:1961 [20], Bhattacherrya:2003 [22], brosius:2011 [1].

References

- [1] Dorothea F. Brosius. Instructions for using bibtex with latex documents. *Phys. Plasmas*, 1:0001, 2011.
- [2] M. B. Hindmarsh and T. W. B. Kibble. Cosmic strings. *Rep. Prog. Phys.*, 58(5):477–562, May 1995. doi: 10.1088/0034-4885/58/5/001.
- [3] M. J. Reid, K. M. Menten, S. Trippe, T. Ott, and R. Genzel. The position of sagittarius A*. III. motion of the stellar cusp. *Astrophys. J.*, 659:378–379, April 2007.
- [4] A. M. Ghez, S. Salim, S. D. Hornstein, A. Tanner, J. R. Lu, M. Morris, E. E. Becklin, and G. Duchêne. Stellar orbits around the galactic center black hole. *Astrophys. J.*, 620:744–757, February 2005.
- [5] R. Schödel, T. Ott, R. Genzel, R. Hofmann, and et al. A star in a 15.2-year orbit around the supermassive black hole at the centre of the Milky Way. *Nature*, 419:694–696, October 2002.
- [6] Pablo Laguna and Richard A. Matzner. Numerical simulation of bosonic-superconducting-string interactions. *Phys. Rev. D*, 41(6):1751–1763, March 1990.
- [7] Anne-Christine Davis and Konstantinos Dimopoulos. Cosmic superstrings and primordial magnetogenesis. *Phys. Rev. D*, 72:043517, 2005.
- [8] Vanda Silveira. Superconducting strings and stable loops. *Phys. Rev. D*, 43(12):3966–3971, June 1991.
- [9] J. F. Hansen, S. K. P. Tripathi, and P. M. Bellan. Co- and counter-helicity interaction between two adjacent laboratory prominences. *Phys. Plasmas*, 11(6):3177, 2004.
- [10] E. M. Chudnovsky, G. B. Field, D. N. Spergel, and A. Vilenkin. Superconducting cosmic strings. *Phys. Rev. D*, 34(4):944–950, August 1986.
- [11] E. Copeland, M. Hindmarsh, and N. Turok. Dynamics of superconducting cosmic strings. *Phys. Rev. Lett.*, 58(18):1910–1913, May 1987.
- [12] K. S. Dwarakanath, W. M. Goss, J. H. Zhao, and C. C. Lang. On the origin of the wide H α absorption line towards Sgr A*. *J. Astrophys. Astr.*, 25:129–141, 2004.
- [13] Malcolm N. Butler, Robert A. Malaney, and Milan B. Mijić. Evolution of a superconducting-cosmic-string network. *Phys. Rev. D*, 43:2535–1541, April 1991.
- [14] F. Yusef-Zadeh, C. Law, M. Wardle, Q. D. Wang, A. Fruscione, C. C. Lang, and A. Cotera. Detection of x-ray emission from the arches cluster near the galactic center. *Astrophys. J.*, 570:665–670, May 2002.
- [15] Yoshiaki Sofue and Vera Rubin. Rotation curves of spiral galaxies. *Annu. Rev. Astron. Astrophys.*, 39:137–174, 2001.
- [16] L. D. Landau and E. M. Lifshitz. *Course of Theoretical Physics*, volume 1. Pergamon Press, England, 3 edition, 1991. Translated from Russian by J. B. Sykes and J. S. Bell.

- [17] Cornelia C. Lang, Claudia Cyganowski, W. M. Goss, and Jun-Nui Zhao. High-resolution H1 absorption observations towards the central 200 pc of the galaxy. *Astron. Nachr./AN*, 324(S1):1–7, 2003.
- [18] N. Mouawad, A. Eckart, S. Pfalzner, J. Moutaka, C. Straubmeier, R. Spurzem, R. Schödel, and T. Ott. Stellar orbits at the center of the Milky Way. *Astron. Nachr./AN*, 324(S1):315–319, 2003.
- [19] GG Stokes. On the theory of oscillatory waves. *Transactions of the Cambridge Philosophical Society*, 8:441, 1847.
- [20] OM Phillips. On the dynamics of unsteady gravity waves of finite amplitude 2: Local properties of a random wave field. *J. Fluid Mech.*, 11:143–155, 1961.
- [21] R Petzler. White-water wake characteristics of surface vessels. Memorandum report 5335, Naval Research Laboratory, Washington, DC, June 1984.
- [22] R Bhattacharyya and ME McCormick, editors. *Wave energy conversion*. Elsevier Ocean Engineering Book Series Volume 6. Elsevier, 2003.

%Galactic.bib

```
@ARTICLE{lang1999,  
  AUTHOR = "Cornelia C. Lang and K. R. Anantharamaiah and N. E. Kassim and T. J. W. Lazio",  
  TITLE = "Discovery of a Nonthermal Galactic Center Filament (G358.85+0.47) Parallel to the  
Galactic Plane",  
  JOURNAL = "Astrophys. J.",  
  YEAR = "1999",  
  volume = "521",  
  number = "",  
  pages = "L41-L44",  
  month = "August",  
  note = "",  
  abstract = "",  
  keywords = "",  
  source = "",  
  file = F  
}
```

```
@ARTICLE{hindmarsh1995,  
  AUTHOR = "M. B. Hindmarsh and T. W. B. Kibble",  
  TITLE = "Cosmic Strings",  
  JOURNAL = "Rep. Prog. Phys.",  
  YEAR = "1995",  
  volume = "58",  
  number = "5",  
  pages = "477-562",  
  month = "May",  
  note = "",  
  abstract = "",  
  keywords = "",  
  source = "doi:10.1088/0034-4885/58/5/001",  
  file = F  
}
```

```
@ARTICLE{genzel2007,  
  AUTHOR = "M. J. Reid and K. M. Menten and S. Trippe and T. Ott and R. Genzel",  
  TITLE = "The Position of Sagittarius {A}* . {III}. Motion of the Stellar Cusp",  
  JOURNAL = "Astrophys. J.",  
  YEAR = "2007",  
  volume = "659",  
  number = "",  
  pages = "378-379",  
  month = "April",  
  note = "",  
  abstract = "",  
  keywords = "",  
  source = "",  
  file = F  
}
```

```
@ARTICLE{morris2004,  
  AUTHOR = "A. M. Ghez and S. Salim and S. D. Hornstein and A. Tanner and J. R. Lu and M.  
Morris and E. E. Becklin and G. Duch $\hat{\text{e}}$ ne",  
  TITLE = "Stellar Orbits around the Galactic Center Black Hole",  
  JOURNAL = "Astrophys. J.",  
  YEAR = "2005",  
  volume = "620",  
  number = "",  
  pages = "744-757",  
  month = "February",  
  note = "",  
  abstract = "",  
  keywords = "",  
  source = "",  
  file = F  
}
```

```
@ARTICLE{genzel2002,  
  AUTHOR = "R. Sch $\dot{\text{o}}$  $\text{\del}$  and T. Ott and R. Genzel and R. Hofmann and et al.",  
  TITLE = "A Star in a 15.2-Year Orbit around the Supermassive Black Hole at the Centre of  
the {M}ilky {W}ay",  
}
```

```

JOURNAL = "Nature",
YEAR = "2002",
volume = "419",
number = "",
pages = "694-696",
month = "October",
note = "",
abstract = "",
keywords = "",
source = "",
file = F
}

@ARTICLE{matzner1990,
AUTHOR = "Pablo Laguna and Richard A. Matzner",
TITLE = "Numerical Simulation of Bosonic-Superconducting-String Interactions",
JOURNAL = "Phys. Rev. D",
YEAR = "1990",
volume = "41",
number = "6",
pages = "1751-1763",
month = "March",
note = "",
abstract = "",
keywords = "",
source = "",
file = F
}

@ARTICLE{davis2005,
AUTHOR = "Anne-Christine Davis and Konstantinos Dimopoulos",
TITLE = "Cosmic Superstrings and Primordial Magnetogenesis",
JOURNAL = "Phys. Rev. D",
YEAR = "2005",
volume = "72",
number = "",
pages = "043517",
month = "",
note = "",
abstract = "",
keywords = "",
source = "DOI: 10.1103/PhysRevD.72.043517",
file = F
}

@ARTICLE{silveira1991,
AUTHOR = "Vanda Silveira",
TITLE = "Superconducting Strings and Stable Loops",
JOURNAL = "Phys. Rev. D",
YEAR = "1991",
volume = "43",
number = "12",
pages = "3966-3971",
month = "June",
note = "",
abstract = "",
keywords = "",
source = "",
file = F
}

@ARTICLE{bellan2004,
AUTHOR = "J. F. Hansen and S. K. P. Tripathi and P. M. Bellan",
TITLE = "Co- and Counter-Helicity Interaction between Two Adjacent Laboratory Prominences",
JOURNAL = "Phys. Plasmas",
YEAR = "2004",
volume = "11",
number = "6",
pages = "3177-3185",
month = "June",
note = "",
abstract = "",
keywords = ""
}

```

```

source =      "",
file = F
}

@ARTICLE{chud1986,
AUTHOR =      "E. M. Chudnovsky and G. B. Field and D. N. Spergel and A. Vilenkin",
TITLE =       "Superconducting Cosmic Strings",
JOURNAL =     "Phys. Rev. D",
YEAR =        "1986",
volume =      "34",
number =      "4",
pages =       "944-950",
month =       "August",
note =        "",
abstract =    "",
keywords =    "",
source =      "",
file = F
}

@ARTICLE{copeland1987,
AUTHOR =      "E. Copeland and M. Hindmarsh and N. Turok",
TITLE =       "Dynamics of Superconducting Cosmic Strings",
JOURNAL =     "Phys. Rev. Lett.",
YEAR =        "1987",
volume =      "58",
number =      "18",
pages =       "1910-1913",
month =       "May",
note =        "",
abstract =    "",
keywords =    "",
source =      "",
file = F
}

@ARTICLE{lang2004,
AUTHOR =      "K. S. Dwarakanath and W. M. Goss and J. H. Zhao and C. C. Lang",
TITLE =       "On the Origin of the Wide {H}I Absorption Line Towards {S}gr {A}* ",
JOURNAL =     "J. Astrophys. Astr.",
YEAR =        "2004",
volume =      "25",
number =      "",
pages =       "129-141",
month =       "",
note =        "",
abstract =    "",
keywords =    "",
source =      "",
file = F
}

@ARTICLE{butler1991,
AUTHOR =      "Malcolm N. Butler and Robert A. Malaney and Milan B. Mijiš\acute{\mbox{c}}",
TITLE =       "Evolution of a Superconducting-Cosmic-String Network",
JOURNAL =     "Phys. Rev. D",
YEAR =        "1991",
volume =      "43",
number =      "",
pages =       "2535-1541",
month =       "April",
note =        "",
abstract =    "",
keywords =    "",
source =      "",
file = F
}

@ARTICLE{Lang2002,
AUTHOR =      "F. Yusef-Zadeh and C. Law and M. Wardle and Q. D. Wang and A. Fruscione and C.
C. Lang and A. Cotera",
TITLE =       "Detection of X-ray Emission from the Arches Cluster near the Galactic Center",
JOURNAL =     "Astrophys. J.",

```



```

YEAR = "2002",
volume = "570",
number = "",
pages = "665-670",
month = "May",
note = "",
abstract = "",
keywords = "",
source = "",
file = F
}

@ARTICLE{sofue2001,
AUTHOR = "Yoshiaki Sofue and Vera Rubin",
TITLE = "Rotation Curves of Spiral Galaxies",
JOURNAL = "Annu. Rev. Astron. Astrophys.",
YEAR = "2001",
volume = "39",
number = "",
pages = "137-174",
month = "",
note = "",
abstract = "",
keywords = "",
source = "",
file = F
}

@BOOK{landaumech,
AUTHOR = "L. D. Landau and E. M. Lifshitz",
editor = "",
TITLE = "Course of Theoretical Physics",
PUBLISHER = "Pergamon Press",
YEAR = "1991",
volume = "1",
number = "",
series = "",
address = "England",
edition = "3",
month = "",
note = "Translated from Russian by J. B. Sykes and J. S. Bell",
abstract = "",
isbn = "",
price = "",
keywords = "",
source = "",
file = F
}

@ARTICLE{lang2003,
AUTHOR = "Cornelia C. Lang and Claudia Cyganowski and W. M. Goss and Jun-Nui Zhao",
TITLE = "High-Resolution  $H_1$  Absorption Observations towards the Central 200 pc of the Galaxy",
JOURNAL = "Astron. Nachr./AN",
YEAR = "2003",
volume = "324",
number = "S1",
pages = "1-7",
month = "",
note = "",
abstract = "",
keywords = "",
source = "",
file = F
}

@ARTICLE{ott2003,
AUTHOR = "N. Mouawad and A. Eckart and S. Pfalzner and J. Moultaqa and C. Straubmeier and R. Spurzem and R. Sch $\ddot{o}$  and T. Ott",
TITLE = "Stellar Orbits at the Center of the  $M_{\text{ilk}}$   $W_{\text{ay}}$ ",
JOURNAL = "Astron. Nachr./AN",
YEAR = "2003",
volume = "324",

```

```
number = "S1",
pages = "315-319",
month = "",
note = "",
abstract = "",
keywords = "",
source = "",
file = F
}

@ARTICLE{polchinski2004,
AUTHOR = "Joseph Polchinski",
TITLE = "Cosmic Superstrings Revisited",
JOURNAL = "",
YEAR = "2004",
volume = "",
number = "",
pages = "",
month = "",
note = "Presented at the Mitchell Conference on Superstring Cosmology, GR17, Cosmo04;
presented at the 2004 APS-DPF Meeting",
abstract = "",
keywords = "",
source = "",
file = F
}
```

%Find the type of publication you are referencing, copy and paste that part into your own bibtex file and fill in the blanks.

```
@ARTICLE{ ,  
  AUTHOR =      " " ,  
  TITLE =      " " ,  
  JOURNAL =    " " ,  
  YEAR =      " " ,  
  volume =    " " ,  
  number =    " " ,  
  pages =     " " ,  
  month =     " " ,  
  note =      " " ,  
  abstract =   " " ,  
  keywords =   " " ,  
  source =    " " ,  
  file = F  
}
```

```
@BOOK{ ,  
  AUTHOR =      " " ,  
  editor =     " " ,  
  TITLE =      " " ,  
  PUBLISHER =   " " ,  
  YEAR =      " " ,  
  volume =    " " ,  
  number =    " " ,  
  series =     " " ,  
  address =    " " ,  
  edition =    " " ,  
  month =     " " ,  
  note =      " " ,  
  abstract =   " " ,  
  isbn =      " " ,  
  price =     " " ,  
  keywords =   " " ,  
  source =    " " ,  
  file = F  
}
```

```
@INBOOK{ ,  
  AUTHOR =      " " ,  
  editor =     " " ,  
  TITLE =      " " ,  
  CHAPTER =    " " ,  
  pages =     " " ,  
  PUBLISHER =   " " ,  
  YEAR =      " " ,  
  volume =    " " ,  
  number =    " " ,  
  series =     " " ,  
  type =      " " ,  
  address =    " " ,  
  edition =    " " ,  
  month =     " " ,  
  note =      " " ,  
  abstract =   " " ,  
  keywords =   " " ,  
  file = F  
}
```

```
@PROCEEDINGS{ ,  
  TITLE =      " " ,  
  YEAR =      " " ,  
  editor =     " " ,  
  publisher =   " " ,  
  volume =    " " ,  
  number =    " " ,  
  series =     " " ,  
  organization = " " ,  
  address =    " " ,  
  month =     " " ,
```

```
note = " ",
abstract = " ",
isbn = " ",
price = " ",
keywords = " ",
source = " ",
file = F
}
```

```
@INPROCEEDINGS{ ,
AUTHOR = " ",
TITLE = " ",
BOOKTITLE = " ",
YEAR = " ",
editor = " ",
volume = " ",
number = " ",
series = " ",
pages = " ",
address = " ",
month = " ",
organization = " ",
publisher = " ",
note = " ",
abstract = " ",
keywords = " ",
file = F
}
```

```
@CONFERENCE{ ,
author = { },
title = { },
booktitle = { },
year = { },
editor = { },
volume = { },
series = { },
pages = { },
address = { },
month = { },
organization = { },
publisher = { },
note = { },
key = { },
crossref = { },
annote = { }
}
```

```
@PHDTHESIS{ ,
AUTHOR = " ",
TITLE = " ",
SCHOOL = " ",
YEAR = " ",
type = " ",
address = " ",
month = " ",
note = " ",
abstract = " ",
keywords = " ",
source = " ",
file = F
}
```

```
@MASTERSTHESIS{ ,
AUTHOR = " ",
TITLE = " ",
SCHOOL = " ",
YEAR = " ",
type = " ",
address = " ",
month = " ",
note = " ",
abstract = " "
```

```
keywords = " ",
source = " ",
file = F
}
```

```
@MISC{ ,
author = " ",
title = " ",
howpublished = " ",
year = " ",
month = " ",
note = " ",
abstract = " ",
keywords = " ",
source = " ",
file = F
}
```

```
@UNPUBLISHED{ ,
AUTHOR = " ",
TITLE = " ",
NOTE = " ",
year = " ",
month = " ",
abstract = " ",
keywords = " ",
source = " ",
file = F
}
```

```
@TECHREPORT{ ,
AUTHOR = " ",
TITLE = " ",
INSTITUTION = " ",
YEAR = " ",
type = " ",
number = " ",
address = " ",
month = " ",
note = " ",
abstract = " ",
keywords = " ",
source = " ",
file = F
}
```

```
@MANUAL{ ,
TITLE = " ",
author = " ",
organization = " ",
address = " ",
edition = " ",
month = " ",
year = " ",
note = " ",
abstract = " ",
keywords = " ",
source = " ",
file = F
}
```

```
@INCOLLECTION{ ,
CROSSREF = " ",
author = " ",
title = " ",
chapter = " ",
pages = " ",
note = " ",
abstract = " ",
keywords = " ",
source = " ",
file = F
}
```

```
@INCOLLECTION{ ,
AUTHOR = " ",
TITLE = " ",
BOOKTITLE = " ",
PUBLISHER = " ",
YEAR = " ",
editor = " ",
volume = " ",
number = " ",
series = " ",
type = " ",
chapter = " ",
pages = " ",
address = " ",
edition = " ",
month = " ",
note = " ",
abstract = " ",
keywords = " ",
file = F
}
```