Collegio Alessandro Volta Via Adolfo Ferrata, 17, Pavia (PV)





Lecture 6 - Bibliography, References & Special Documents

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Bibliography Management

- There are three main options in LaTeX:
 - bibtex;
 - natbib;
 - biblatex.
- biblatex is a modern option for processing bibliography information, provides an easier and more flexible interface and a better language localization than the other two options.
- A minimal working example of the biblatex package is shown on the right.

\documentclass[letterpaper,10pt]{article} \usepackage{biblatex} %Imports biblatex package \addbibresource{sample.bib} %Import the bibliography file

\begin{document}
Let's cite! Einstein's journal paper \cite{einstein} and
Dirac's
book \cite{dirac} are physics-related items.

\printbibliography %Prints bibliography

\end{document}

Let's cite! Einstein's journal paper [2] and Dirac's book [1] are physicsrelated items.

References

- Paul Adrien Maurice Dirac. The Principles of Quantum Mechanics. International series of monographs on physics. Clarendon Press, 1981. ISBN: 9780198520115.
- Albert Einstein. "Zur Elektrodynamik bewegter Körper. (German) [On the electrodynamics of moving bodies]". In: Annalen der Physik 322.10 (1905), pp. 891–921. DOI: http://dx.doi.org/10.1002/andp.19053221004.

Try it by yourself

```
\documentclass{article}
\usepackage[backend=biber,style=alphabetic,sorting=ynt]{biblatex}
\addbibresource{sample.bib}
\title{Bibliography management: \texttt{biblatex} package}
\author{Overleaf}
\date{ }
\begin{document}
\maketitle
Using \texttt{biblatex} you can display a bibliography divided
into sections, depending on citation type. Let's cite! Einstein's
journal paper \cite{einstein} and Dirac's book \cite{dirac} are
physics-related items. Next, \textit{The \LaTeX\ Companion} book
 \cite{latexcompanion}, Donald Knuth's website \cite{knuthwebsite},
\textit{The Comprehensive Tex Archive Network} (CTAN)
\cite{ctan} are \LaTeX-related items; but the others, Donald Knuth's items,
\cite{knuth-fa,knuth-acp} are dedicated to programming.
\medskip
\printbibliography
\end{document}
```

Using biblatex you can display a bibliography divided into sections, depending on citation type. Let's cite! Einstein's journal paper [Ein05] and Dirac's book [Dir81] are physics-related items. Next, The BTEX Companion book [GMS93], Donald Knuth's website [Knu], The Comprehensive Tex Archive Network (CTAN) [Gre93] are BTEX-related items; but the others, Donald Knuth's items, [Knu73; Knu68] are dedicated to programming.

References

- [Ein05] Albert Einstein. "Zur Elektrodynamik bewegter Körper. (German) [On the electrodynamics of moving bodies]", In: Annalen der Physik 322.10 (1905), pp. 891–921. DOI: http://dx.doi.org/10.1002/ andp.19053221004.
- [Knu68] Donald E. Knuth, The Art of Computer Programming. Four volumes. Seven volumes planned. Addison-Wesley, 1968.
- [Knu73] Donald E. Knuth. "Fundamental Algorithms". In: Addison-Wesley, 1973. Chap. 1.2.
- [Dir81] Paul Adrien Maurice Dirac. The Principles of Quantum Mechanics. International series of monographs on physics. Clarendon Press, 1981. ISBN: 9780198520115.
- [GMS93] Michel Goossens, Frank Mittelbach, and Alexander Samarin. The <u>MTeX Companion</u>. Reading, Massachusetts: Addison-Wesley, 1993.
- [Gre93] George D. Greenwade. "The Comprehensive Tex Archive Network (CTAN)". In: TUGBoat 14.3 (1993), pp. 342–351.
- [Knu] Donald Knuth. Knuth: Computers and Typesetting. URL: http://www-cs-faculty.stanford.edu/-uno/abcde.html. (accessed: 01.09.2016).

The Bibliography file

```
@article{einstein,
    author = "Albert Einstein",
    title = "{Zur Elektrodynamik bewegter K{\"o}rper}.
({German})
    [{On} the electrodynamics of moving bodies]",
    journal = "Annalen der Physik",
    volume = "322",
    number = "10",
    pages = "891 - 921",
    year = "1905",
    DOI = "http://dx.doi.org/10.1002/andp.19053221004",
    keywords = "physics"
@book{dirac,
    title = {The Principles of Quantum Mechanics},
    author = {Paul Adrien Maurice Dirac},
    isbn = {9780198520115},
    series = {International series of monographs on
physics},
    year = \{1981\},
    publisher = {Clarendon Press},
    keywords = {physics}
```

```
@online{knuthwebsite,
    author = "Donald Knuth",
    title = "Knuth: Computers and Typesetting",
    url = "http://www-cs-
faculty.stanford.edu/~uno/abcde.html",
    addendum = "(accessed: 01.09.2016)",
    keywords = "latex,knuth"
}

@inbook{knuth-fa,
    author = "Donald E. Knuth",
    title = "Fundamental Algorithms",
    publisher = "Addison-Wesley",
    year = "1973",
    chapter = "1.2",
    keywords = "knuth,programming"
}
```

Customizing the bibliography

```
\documentclass{article}
\usepackage[backend=biber,style=alphabetic,sorting=ynt]{biblatex}
\addbibresource{sample.bib}
\title{Bibliography management: \texttt{biblatex} package}
\author{Overleaf}
\date{May 2021}
\begin{document}
\maketitle
Using \texttt{biblatex} you can display a bibliography divided into
sections,
depending on citation type. Let's cite! Einstein's journal paper
\cite{einstein}
and Dirac's book \cite{dirac} are physics-related items. Next,
\textit{The \LaTeX\ Companion}
book \cite{latexcompanion}, Donald Knuth's website
\cite{knuthwebsite},
\textit{The Comprehensive Tex Archive Network} (CTAN) \cite{ctan}
\LaTeX-related items; but the others, Donald Knuth's items,
\cite{knuth-fa,knuth-acp} are dedicated to programming.
\medskip
\printbibliography[title={Whole bibliography}]
```

Whole bibliography

[Ein05]	Albert Einstein. "Zur Elektrodynamik ber [On the electrodynamics of moving bodies] 322.10 (1905), pp. 891–921. DOI: http://
	andp.19053221004.
[Knu68]	Donald E. Knuth. The Art of Computer Pro-

- [Knu68] Donald E. Knuth. The Art of Computer Pro-Seven volumes planned. Addison-Wesley, 1
- [Knu73] Donald E. Knuth. "Fundamental Algorith 1973. Chap. 1.2.
- [Dir81] Paul Adrien Maurice Dirac. The Princip ics. International series of monographs on 1981. ISBN: 9780198520115.
- [GMS93] Michel Goossens, Frank Mittelbach, and LATEX Companion. Reading, Massachusetts
- [Gre93] George D. Greenwade. "The Comprehens (CTAN)". In: *TUGBoat* 14.3 (1993), pp. 3
- [Knu] Donald Knuth. Knuth: Computers and Tywww-cs-faculty.stanford.edu/~uno.01.09.2016).

Customizing the bibliography

\printbibliography[type=article,title={Articles only}]
\printbibliography[type=book,title={Books only}]

\printbibliography[keyword={physics},title={Physics-related only}]
\printbibliography[keyword={latex},title={\LaTeX-related only}]

Articles only

- [Ein05] Albert Einstein. "Zur Elektrodynamik bewegter Körper. (German) [On the electrodynamics of moving bodies]". In: Annalen der Physik 322.10 (1905), pp. 891–921. DOI: http://dx.doi.org/10.1002/andp.19053221004.
- [Gre93] George D. Greenwade. "The Comprehensive Tex Archive Network (CTAN)". In: *TUGBoat* 14.3 (1993), pp. 342–351.

Books only

- [Knu68] Donald E. Knuth. The Art of Computer Programming. Four volumes. Seven volumes planned. Addison-Wesley, 1968.
- [Dir81] Paul Adrien Maurice Dirac. The Principles of Quantum Mechanics. International series of monographs on physics. Clarendon Press, 1981. ISBN: 9780198520115.
- [GMS93] Michel Goossens, Frank Mittelbach, and Alexander Samarin. *The LATEX Companion*. Reading, Massachusetts: Addison-Wesley, 1993.

Adding the bibliography to the ToC

```
\printbibliography[
heading=bibintoc,
title={Whole bibliography}
```

\printbibliography[heading=subbibintoc,type=article,title={Articles only}]

Special documents

- LaTeX is the best tool for writing professional scientific articles, thesis, letters, academic journals, CVs, ...
- In the following slides we will see:
 - Academic Journals;
 - Thesis:
 - Letters:
 - Presentations:
 - Scientific Reports;
 - CVs & Resumes.

Algorithm

Algorithm

Algorithm, implementing Andersen's context-insensitive ponts-to analysis, constructs a flow graph G representing the pointer flow for a program.

G has nodes for variables, abstract locations, and field of abstract locations.

G has an edge $n \rightarrow n'$ iff one of the following two conditions holds:

- n is an abstract location o; representing a statement x = new T(). and n' is x.
- pt(n) ⊆ pt(n') according to some rule.







WHO AM IS

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Academic Journals

AASTeX Template for submissions to AAS Journals (ApJ-AJ-ApJS-ApJL-PSJ-RNAAS) Official

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Author American Astronomical Society

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Abstract The American Astronomical Society (AAS) has developed a

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manuscripts intended for submission to all the AASaffiliated journals. The journals are the Astrophysical

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Supplements (ApJS), Letters (ApJL), The Planetary Science

Journal (PSJ), and Research Notes of the American

Astronomical society (RNAAS). The latest LaTeX classfile is

AASTeX v6.3.1 and it can be obtained here. The

sample631.tex template uses this classfile to illustrate

DRAFT VIRGINIS JUNE 2, 2022 Typoset ming DTEX default style in AASTAXGE

Template AASTgXArticle with Examples v6.3.1

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F.X Timon, 5.4 Any Hennistons, 6.1 Julie Stryen, 5.3

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1687 K. Street NW, State NW
Washington, JPC 20006, USA
* Astronom State University
*AAS Journale Associate Editor-us-Chief
* The National State of the State of the State
* AAS Director of Publishing

ABSTRACT

This example manuscript is intended to serve as a totorial and template for authors to see when writing their own AAS Journal articles. The measureript includes a history of AASTgX and includes figure and table examples to illustrate these features. Information on features not explicitly mentioned in the article can be viewed in the minimoript commonts or more extensive suline documentation. Authors are welcome replace the text, tables, figures, and hibbiography with their own and submit the resulting manuscript to the AAS Journals peer review system. The first boson in the totorial is to remind authors that the AAS Journals, the Astrophysical Journal (ApJ), the Astrophysical Journal Letters (ApJL), the Astronomical Journal (AJ), and the Planetary Science Journal (PSI) all have a 250 word limit for the abstract. If you exceed this length the Editorial affine will mis you to shorten.

Keysamb: Classical Navae (251) — Utraviolet astronomy(1736) — History of astronomy(1868) — Interdisciplinary astronomy(864)

1. INTRODUCTION

LaTeX is a document markup language that is particularly well suited for the publication of mathematical and scientific articles (Lamport 1994), LaTeX was written in 1985 by Laslie Lamport who based it on the TeX typesetting language which itself was created by Donald E. Kanth in 1978. In 1988 a suite of LaTeX macros were developed in investigate electronic submission and publication of AAS Journal articles (Hannich & Bismesdefer 1999). Shortly afterwards, Chris Bismesdefer merged these macros and more into a LaTeX 2.98 style file radial AASTeX. These only AASTeX versions introduced many common communials and practices that authors take for granted today. Substantial recisions were made by Lee Brotzman and Pierre Landau when the package was updated to 4.0. AASTeX v.5.0. written in 1995 by Arthur Ogama, augmaled to LaTeX 2c which uses the document class in lieu of a style file. Other improvements to version 5 included hypertext support, hadescape defunctables and improved figure support to facilitate deep to identifier actionsonical objects, datasets and facilities.

In 1996 Maxim Markevitch modified the AAS proprint style file, anapplesty, to closely combine the very tight, twocolumn style of a typeset Astrophysical Journal article. The result was emphasized, sty. A year later Alexey Vikhliniu

Thesis

Computer Engineering MsC Thesis - UniPD

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Author Luca Martinelli

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Abstract Computer Engineering MsC Template for University of

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An interesting title for the thesis

MASTER CANDIDATE

Luca Martinelli

Student ID 1518036

Supervisor

Prof. Tim Berners-Lee University of Padova

Co-supervisor

Dott. Robert Kahn University of Princeton

Letters

BNU Letter of Recommendation

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Zain Chen Author Last Updated 24 days ago

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Template by Brian Wood (brian.wood@oregonstate.edu). Abstract

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Haidian District,

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E-mail: xxx@bnu.edu.cn

URL: http://homepage.hit.edu.cn/XXX

November 22, 2022

Some University Some Addresss

SomeTown, SomeState SomeZip

Dear Application Committee,

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbitristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metusrhoncus sem. Nulla et lectus vestibulum urna fringilia ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget semvel leo ultrices bibendum. Aenean faucibus, Morbi dolor nulla, malesuada eu, pulvinar at, mollisac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim

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Nulla malesuada portitor diam. Donec felis erat, conque non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

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Preliminary draft 17:07 28 March 2018

28 March 2018

author.email@cern.ch

CERN ATS Note title

Author Name

CERN, CH-1211 Geneva, Switzerland

Keywords: Bending Magnet, path length, pole face angle, beam trajectory, survey, GEODE

Summary

This document shows how to calculate the path-length of rectangular bending magnets in a beam line. The path-length depends on the pole-face angles, i.e. how the magnet is positioned in the line. The majority of bending magnets are installed with identical pole-face angles at the start and the end, but in certain cases the pole-face angles are different e.g., in the CERN PS BOOSTER BTP and BTY extraction lines, the BHZ10 magnet have a special positioning in order not to perturb the optics of any of the lines unfavorably. The path-length correspond to the s-parameter in MADX, and must be calculated precisely, in order to get a correct survey, which need to be correct to the 10 micron level.

Contents

1	Introduction	2
2	2 How to position a straight vacuum chamber to maximize aperture for the	
b	eam	4
3	Three layouts for a rectangular magnet	
	3.1 The standard magnet layout	5
	3.2 Rectangular bending magnet with zero pole phase angle at ENTRE	6

Book Covers

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Author Carlo Delle Donne

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- 31/01/1970 (Earth, Solar System)
- Mars, Solar System
- ceskergabbro@globemail.com
- ceskergabbro.com
- m www.linkedin.com/in/ceskergabbro
- o github.com/ceskergabbro

My name is Clio Esker Gabbro. I am a space explorer with experience on Mars. My current ambition is to conduct further research on awareness during time loops. Very importantly, I do not lie on résumés. In my free time, I enjoy formulating jokes and puns and roasting vegan marshmallows.

EDUCATION

PhD Irrelevant Science of Jokes

Perfected the fine art of species-inclusive interplanetary entertainment, a.k.a. PC jokes Institute of PlutoTech (remote) •

2013 - 2017

MSc Cheap Space Entertainment

Learned how to make low-quality space movies, and how to sell them as refined content Lunar University of Technology Q

2010 - 2012

WORK EXPERIENCE

Mars explorer

Mostly playing with Mars rovers to search for the remains of an ancient society

- Mars (Solar System)
- Movember 2017 present

Personal portable heater

Hired on demand by those who happened to feel cold during the day and could use a hug too

- · All over Earth
- # June 2008 March 2010

SELECTED PUBLICATIONS

Looking for Water on Mars

- C. Esker Gabbro et al. .
- Journal of ambitious hobby projects (2012)

DOI: 12.3456/1234567.1234567 @

Life on Mars: All You Need Is a Twix

SKILLS & LANGUAGES

Computer

OOO Python++

●●○ DeRust ●●○ JavaSharp OO Macrohard

Other tools



"Is it better to be feared or respected?" I say, is it too much to ask for both? I prefer the weapon you only have to fire once. For your consideration... \LaTeX