

Spotted Python

Week 7 Tutorial

- ★ Reading papers
- ★ Finding papers
- ★ Overleaf
- ★ LaTeX Packages

Reading a paper

- ★ Order to read a paper:

- ★ Abstract
- ★ Figures
- ★ Conclusions
- ★ Introduction
- ★ The rest

- ★ Identification of an $[\alpha/\text{Fe}]$ –Enhanced Thick Disk Component in an Edge-on Milky Way Analog

- ★ <https://iopscience.iop.org/article/10.3847/2041-8213/abfc57>

- ★ Let's start reading!

Finding and storing papers

- ★ ADS/NASA

- ★ <https://ui.adsabs.harvard.edu/>

- ★ ArXiv

- ★ <https://arxiv.org/>

- ★ Pathfinder

- ★ <https://huggingface.co/spaces/kiyer/pathfinder>

- ★ Zotero

- ★ <https://www.zotero.org/>

- ★ Let's decide your pairs for the presentation!

LaTeX and Overleaf

- ★ preferable typesetting software in academic writing
- ★ For your written report, you must use LaTeX in either the PASA or MNRAS journal style
 - ★ Log into overleaf
 - ★ New Project → Templates → View All
 - ★ Search either PASA (Cambridge) or MNRAS
- ★ UNSW provides free Pro accounts, so make sure to sign up using your university email

How do I start using LaTeX

★ <https://www.overleaf.com/learn/latex/Tutorials>

★ Sections

★ `\begin{section}`
`\end{section}`

★ Lists (ordered and unordered)

★ `\begin{itemize}` or `\begin{enumerate}`
`\end{itemize}` or `\end{enumerate}`

★ Images (including captions)

★ `\begin{figure}`
`\end{figure}`

How do I start using LaTeX

★ Tables

- ★ Use table generators (e.g. <https://www.tablesgenerator.com/>)

★ Equations (including the Physics package)

- ★ https://www.overleaf.com/learn/latex/Mathematical_expressions

★ Code

- ★ `\begin{lstlisting}[language=Python]`
`\end{lstlisting}`

★ References

- ★ Export from Zotero and upload

Setting up your document

- ★ Create a folder for your figures, tables, and sections
- ★ Import all the packages you require, for example:
 - ★ `\usepackage{graphicx}`
 - ★ `\usepackage{amsmath}`
 - ★ `\usepackage{listings}`
- ★ Have a clear storyline
- ★ Figure captions go below, and table captions go above
- ★ All captions must include the takeaway message of the figure and include all details required for a reader's understanding