Spotted Python
Week 5 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