

Getting Started with LaTeX

- 1) Start TeXworks (in the MikTeX2.9 folder)
 - a. Edit→Preferences ; Click on the “Typesetting” tab
“+” to add to your path
C:/Program Files(x86)/MikTeX2.9/tex/latex/base

- 2) Go to <http://www.maths.tcd.ie/~dwilkins/LaTeXPrimer/>
Copy & Paste “typical latex” into your TeXworks window.
Choose ‘pdfLatex’ from the banner at the upper left.
Your output in PDF form should appear.

- 3) Including a figure: Go to atlas.web.cern.ch
 - a. Public Results→pick any png figure and save it to your desktop.
 - b. In your TeXworks file, put the following after “\documentclass” and before
`\begin{document}: \usepackage[pdftex]{graphicx}`
When you compile you will get a query about the package download. Do it.
Enter the following near where you want the figure:
`\begin{figure}`
`\begin{center}`
`\includegraphics{<filename>.png}`
`\caption{Replace this text with a caption of your choice}`
`\label{figure_01}`
`\end{center}`
`\end{figure}`

4) Write a sentence that refers to the figure using “`\ref{figure_01}`”

5) Citations:

a. Cite documents using `\cite{<arbitrary_name>}` where `<arbitrary_name>` is a tag you have assigned in the bibliography (see b.)

b. The bibliography:

Just prior to “`\end{document}`” insert

```
\begin{thebibliography}{99.}
```

```
\bibitem{arbitrary_name1} F. Author {\it et al.}, Phys. Rev. Lett. {\bf VolNo.},  
ArticleID (Year).
```

```
\bibitem{arbitrary_name2} F. Author {\it et al.}, Phys. Rev. Lett. {\bf VolNo.},  
ArticleID (Year).
```

```
\end{thebibliography}
```

You will have to “compile” twice to get LaTeX to recognize the reference. The first time you will get an undefined reference message when it sees `\cite{}` in the text but hasn’t seen the bibliography yet.