
Guidelines for using the HPL class file for L^AT_EX

Revision History

Version: v1.1.0 | April 05, 2014 | First release

Introduction

This class file is designed to help authors prepare L^AT_EX files to submit to CUP's journal 'HPL' (High Power Laser Science and Engineering). It has been designed to be simple to use, specifically by using the default L^AT_EX commands in order to avoid clashing with other packages. As a result these instructions can be kept to a minimum.

Using this class file your submission will look very similar to the final style of the journal; this helps in breaking displayed equations, putting floats in the right places, etc. Of course you can also load other L^AT_EX packages, to add functionality, e.g. **amsmath.sty** for extra mathematical symbols and constructs.

Frontmatter

The frontmatter is as follows:

```
\newtheorem{theorem}{Theorem}

\shorttitle{Short title}           % Odd page headers
\shortauthor{Short authors}       % Even page headers

\title{Specimen title for HPL class}

\author[1,2]{Author One}
\author[2]{Author Two\corresp{Address of corresp.
\email{corresp@gmail.com}}}}
\author[2,3]{Author Three}

\address[1]{Affiliation of First author}
\address[2]{Affiliation of Second author}
\address[3]{Affiliation of Third author}
```

```

\begin{abstract}
\lipsum[4]
\end{abstract}

\keywords{Laser diagnostics; pulse energy; calorimeter; high power laser}

\maketitle

```

Output of the above code

Specimen title for HPL class

Author One^{1,2}, Author Two², and Author Three^{2,3}

¹*Affiliation of First author*

²*Affiliation of Second author*

³*Affiliation of Third author*

Abstract

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

Keywords: Laser diagnostics; pulse energy; calorimeter; high power laser

Bottom of title page showing output of \corresp

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Correspondence to: Address of corresp. Email: corresp@gmail.com

Fourth level head Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras

Section heads, Enumerated/bulleted lists, floats, equations, theorems, bibliography

These are used in the standard \LaTeX way, e.g.

```
\section{}
\subsection{}
\subsubsection{}
\paragraph{}

\begin{enumerate}
  \item
  \item
\end{enumerate}

\begin{itemize}
  \item
  \item
\end{itemize}

\begin{figure}
  \centering
  \includegraphics{fig1}
  \caption{}
\end{figure}
```

```
\begin{table}
  \caption{}
  \centering
  \begin{tabular}{lll}
    & & \\
    & & \\
  \end{tabular}
\end{table}

\begin{eqnarray} & \begin{equation} \\ \end{equation} \\ \text{Or} \\ \begin{eqnarray} & \end{equation} \end{eqnarray}

\begin{theorem}
\end{theorem}

\begin{thebibliography}{0}
  \bibitem{bib1}
\end{thebibliography}
```