

Review of Templates, LaTeX

JACoW2009A4.tex	A4 paper	Identical except for one line of code, comments and English/US punctuation in references
JACoW2009LTR.tex	US Letter paper	
JAC2003.cls	Class file	
JACpic_mc.eps	Figure 1	
JACpic2v2.eps	Figure 2	

Comments on Use of LaTeX Templates

- ▶ Authors still do not always follow instructions.
- ▶ Use old versions of template or class file.
- ▶ Occasionally do not use JACoW template.
- ▶ Use pre-LaTeX2e coding conventions.
- ▶ Greedy for space, even though LaTeX gains 10–15% compared to MS Word. Efforts to override template often result in more whitespace rather than less.
- ▶ Whatever is wrong, normally easy to fix.
- ▶ Should we go back to a LaTeX specific template with additional wording to better describe the additional LaTeX features?
- ▶ Should we provide a skeleton file rather than the template file?
- ▶ Change the template to being LaTeX instructions (PDF).

JACoW2009A4.tex (307 lines, paragraphs concatenated in this view)

```
\documentclass{JAC2003}

%%
%% This file was updated in April 2009 by J. Poole to be in line with Word templates
%%
%% Use \documentclass[boxit]{JAC2003} to draw a frame with the correct margins on the output.
%%
%% Use \documentclass[acus]{JAC2003} for US letter paper layout.
%%

\usepackage{graphicx}
\usepackage{booktabs}

%%
%% VARIABLE HEIGHT FOR THE TITLE BOX (default 35mm)
%%

\setlength{\titleblockheight}{27mm}

\begin{document}
\title{PREPARATION OF PAPERS FOR JACoW CONFERENCES\thanks{Work supported by ...}}

\author{J. Poole, C. Petit-Jean-Genaz, CERN, Geneva, Switzerland\\
C. Eyberger\thanks{cee@aps.anl.gov}, ANL, Argonne, IL 60439, USA}

\maketitle

\begin{abstract}
Many conference series have adopted the same standards for electronic publication and have joined the Joint Accelerator Conference Website (JACoW) collaboration-\cite{accelconf-ref} for the publication of their proceedings. This document describes the common requirements for the submission of papers to these conferences. Please consult individual conference information for page limits, method of electronic submission, etc. It is not intended that this should be a tutorial in word processing; the aim is to explain the particular requirements for electronic publication at these conference series.
\end{abstract}

\section{SUBMISSION OF PAPERS}

Each author should submit the PostScript and all of the source files (text and figures), to enable the paper to be reconstructed if there are processing difficulties.

\section{MANUSCRIPTS}

Templates are provided for recommended software and authors are advised to use them. Please consult the individual conference help pages if questions arise.

\subsection{General Layout}

These instructions are a typical implementation of the requirements. Manuscripts should have:
\begin{Itemize}
\item Either A4 (21.0\,cm- $\times$ 29.7\,cm; 8.27\,in- $\times$ 11.69\,in) or US letter size (21\,cm- $\times$ 27.9\,cm; 8.5\,in- $\times$ 11.0\,in) paper.
\item Single spaced text in two columns of 82.5\,mm (3.25\,in) with 5.0\,mm (0.2\,in) separation.
\item The text located within the margins specified in Table-\ref{l2ea4-t1} to facilitate electronic processing of the PostScript file.
\end{Itemize}

\begin{table}[hbt]
\centering
\caption{Margin specifications}
\begin{tabular}{lcc}
\toprule
\textbf{Margin} & \textbf{A4 Paper} & \textbf{US Letter Paper} \\
\midrule
Top & 37\,mm & 19\,mm (0.75\,in) \\
Bottom & 19\,mm & 19\,mm (0.75\,in) \\
Left & 20\,mm & 20\,mm (0.79\,in) \\
Right & 20\,mm & 26\,mm (1.02\,in) \\
\bottomrule
\end{tabular}
\label{l2ea4-t1}
\end{table}

The layout of the text on the page is illustrated in Fig.-\ref{l2ea4-f1}. Note that the paper's title and the author list should be the width of the full page. Tables and figures may span the whole 170\,mm page width, if desired (see Fig.-\ref{l2ea4-f2}), but full-width figures should be placed at either the top or bottom of a page to ensure a proper flow of the text (Word only).

\begin{figure}[htb]
\centering
\includegraphics*[width=65mm]{JACpic_mc.eps}
\caption{Layout of papers.}
\label{l2ea4-f1}
\end{figure}
```

Skeleton File (93 lines – could be 85)

```

\documentclass{JAC2003}          % A4 paper
%\documentclass[acus]{JAC2003}   % US Letter paper

%\documentclass[boxit]{JAC2003}  % A4 paper with a frame showing the correct margins
%\documentclass[acus,boxit]{JAC2003} % US Letter paper with a frame showing the correct margins

\usepackage{booktabs,graphicx}

\setlength{\titleblockheight}{27mm} % Variable height for the title block

\begin{document}
\title{\uppercase{JAC\lowercase{o}W title}\thanks{Work supported by ...}}

\author{A. Author, B. Author, Affiliation 1, Country 1\\
C. Author\thanks{email@node.domain}, Affiliation 2, Country 2}

\maketitle

\begin{abstract}
Abstract text
\end{abstract}

\section{JAC\lowercase{o}W section heading in upper case}

Section text.

\subsection{JACoW Subsection Heading with Initial Capitals for Significant Words}

Subsection text.

\begin{Itemize}
\item Compressed item 1.
\item Compressed item 2.
\end{Itemize}

How to reference Table~\ref{tab:jacow1}, Fig.~\ref{fig:jacow1}, Fig.~\ref{fig:jacow2} and Eq.~\ref{eq:jacow1}.
How to cite the references~\cite{English-ref}, \cite{US-ref}, \cite{jacow-help}, \cite{English-example-ref} and \cite{US-example-ref}.

\begin{table}[hbt]
\centering
\caption{Table Caption}
%\setlength\tabcolsep{4pt}
\begin{tabular}{lcc}
\toprule
\textbf{Heading 1} & \textbf{Heading 2} & \textbf{Heading 3} \\
\midrule
Row 1 column 1 & Column 2 & Column 3 \\
Row 2 column 1 & Column 2 & Column 3 \\
\bottomrule
\end{tabular}
\label{tab:jacow1}
\end{table}

\begin{figure}[htb]
\centering
\includegraphics*[width=columnwidth]{JACpic_mc.eps}
\caption{Single column figure.}
\label{fig:jacow1}
\end{figure}

\begin{figure*}[htb]
\centering
\includegraphics*[width=textwidth]{JACpic2v2.eps}
\caption{Full text width figure.}
\label{fig:jacow2}
\end{figure*}

\begin{equation}
\label{eq:jacow1}
C_B = \{q^3 \over 3 \epsilon_0 mc\} = 3.54 \, \hbox{$\mu$eV/T}
\end{equation}

\begin{thebibliography}{99} % Use for 1-99 references
%\begin{thebibliography}{99} % Use for 10-99 references

\bibitem{English-ref}
C. Petit-Jean-Genaz and J. Poole, ``JACoW, A service to the Accelerator Community'', EPAC'04, Lucerne, July 2004, THZCH03, p.-249, \texttt{http://www.JACoW.org}.

\bibitem{US-ref}
C. Petit-Jean-Genaz and J. Poole, ``JACoW, A service to the Accelerator Community'', EPAC'04, Lucerne, July 2004, THZCH03, p.-249, \texttt{http://www.JACoW.org}.

\bibitem{jacow-help}
A. Name and D. Person, Phys. Rev. Lett. 25 (1997) 56.

\bibitem{English-example-ref}
A.N. Other, ``A Very Interesting Paper'', EPAC'96, Sitges, June 1996, MOPCH31, p.-7984 (1996), \texttt{http://www.JACoW.org}.

\bibitem{US-example-ref}
A.N. Other, ``A Very Interesting Paper'', EPAC'96, Sitges, June 1996, MOPCH31, p.-7984 (1996), \texttt{http://www.JACoW.org}.

\end{thebibliography}

\end{document}

```

Skeleton File (first few lines)

```
\documentclass{JAC2003}           % A4 paper
%\documentclass[acus]{JAC2003}    % US Letter paper

%\documentclass[boxit]{JAC2003}    % A4 paper with a frame showing the correct margins
%\documentclass[acus,boxit]{JAC2003} % US Letter paper with a frame showing the correct margins

\usepackage{booktabs,graphicx}

\setlength{\titleblockheight}{27mm} % Variable height for the title block

\begin{document}
\title{\uppercase{JAC\lowercase{o}W title}\thanks{Work supported by ...}}

\author{A. Author, B. Author, Affiliation 1, Country 1\\
  C. Author\thanks{email@node.domain}, Affiliation 2, Country 2}

\maketitle

\begin{abstract}
  Abstract text
\end{abstract}

\section{JAC\lowercase{o}W section heading in upper case}

Section text.

\subsection{JACoW Subsection Heading with Initial Capitals for Significant Words}

Subsection text.

\begin{Itemize}
  \item Compressed item 1.
  \item Compressed item 2.
\end{Itemize}

How to reference Table~\ref{tab:jacow1}, Fig.~\ref{fig:jacow1}, Fig.~\ref{fig:jacow2} and Eq.~\ref{eq:jacow1}.
How to cite the references~\cite{English-ref}, \cite{US-ref}, \cite{jacow-help}, \cite{English-example-ref} and
\cite{US-example-ref}.
```

Skeleton File (Figures)

```
\begin{figure}[htb]
\centering
\includegraphics*[width=\columnwidth]{JACpic_mc.eps}
\caption{Single column figure.}
\label{fig:jacow1}
\end{figure}
```

```
\begin{figure*}[htb]
\centering
\includegraphics*[width=\textwidth]{JACpic2v2.eps}
\caption{Full text width figure.}
\label{fig:jacow2}
\end{figure*}
```