ANN_REP_EXAMPLE

INTRODUCTION

The TRIUMF Annual Report Scientific Activities 1997 is being produced using $\LaTeX\,2_{\varepsilon}$ and Encapsulated PostScript files for figures. Full instructions and skeleton files are available on the WWW at `http://www.triumf.ca/annrep.html` which may be reached via the TRIUMF Home Page.

This example file `ann_rep_example.tex` demonstrates the format that authors should follow when preparing their contributions.

The skeleton file `ann_rep_skeleton.tex` which should be used to produce all contributions is displayed at the end of this document.

Contributor contact information

Contributors should provide their contact information in the fields provided in the skeleton file at the beginning of the document.

Headings

Centred, double-column-wide headings, typeset in capital letters in a `\large \bfseries` font, are only used for the main section headings in the report.

Headings for major aspects of each division are treated as $\LaTeX\,2_{\varepsilon}$ sections and are typeset in capital letters, with no indentation, in a `\normalsize \bfseries` font in two-column mode throughout the report.

Contribution headings

Contribution headings should be in lower-case letters with the initial letter of the first word capitalized.

Authors should provide an explicit contribution heading which indicates the subject of the report. The skeleton file also provides the fields required for Science Division experiment report headings.

As shown in the skeleton file, the $\LaTeX\,2_{\varepsilon}$ sectioning commands have been redefined for the annual report format to allow contributors to use the `\subsection*`, `\subsubsection*` and `\paragraph*` commands for their section headings and hence use three layers of sectioning if required.

All text is typeset in a `\normalsize \rmfamily` [10pt] font, in two-column mode.

Tables

A skeleton table is displayed below. Most tables will be displayed in single-column-wide mode. Exceptionally, double-column-wide mode will be used. Please observe the horizontal line convention and always provide a table caption.

Table I. Please provide a concise table caption.

Column 1	Column 2	Column 3
text	text	text
or	or	or
numbers	numbers	numbers
⋮	⋮	⋮

Figures

All figures should be included at the end of the text.

Most figures will be displayed in single-column-wide mode. Exceptionally, double-column-wide mode will be used. Figures must be provided as Encapsulated PostScript files, with correct Bounding Boxes, and concise captions should always be provided.

Figures must **not** have borders. The figures shown below have borders for demonstration purposes only.

Figures with correct orientation

Figure 1 has been produced using the Encapsulated PostScript file `ann_rep_example_figure_1.eps` which has the correct portrait orientation. Note the exact width scaling through the use of `width=\linewidth` in the `\epsfig` command.

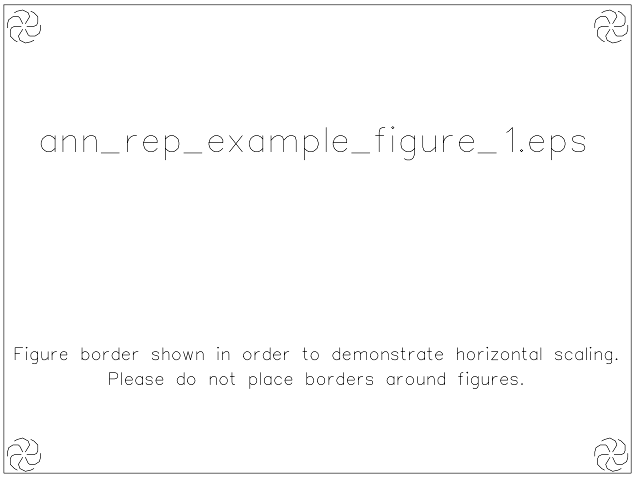

Fig. 1. Please provide a concise figure caption.

Figures with incorrect orientation

Figure 2 has been rotated through 90 degrees (see code listing below) to compensate for the incorrect orientation of the Encapsulated PostScript file `ann_rep_example_figure_2.eps`. Note that in this case, exact width scaling is produced using `height=\linewidth` in the `\epsfig` command.

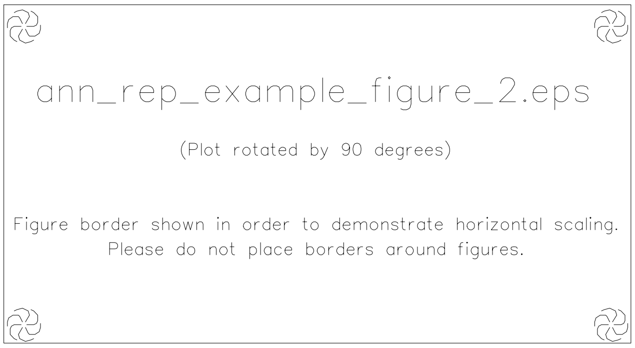

Fig. 2. Please provide a concise figure caption.

Naming convention for figure .eps files

Please use the following naming convention for figures when using the `\epsfig` command: `figure=n_x.eps` where `n` is the experiment number or short alphanumeric string to identify the subject of the contribution, and `x` is the contribution figure number.

Publications

After the text and figures, list all journal or conference publications published, in press, or submitted during 1997.

Theses

List all theses awarded in association with the work during 1997. Provide name, thesis title, type of degree, department and institution awarding degree.

Science Division experiments

Science Division contributors should also list the names and affiliations of all people presently associated with their experiment and the present status of the experiment. The information will be used to update Appendix D and Appendix E.

Skeleton file ann_rep_skeleton.tex

The skeleton file `ann_rep_skeleton.tex` is displayed below. Authors should use this file to produce their contributions. It may be downloaded from the TRIUMF Annual Report home page at `http://www.triumf.ca/annrep.html` .

```
% ANN_REP_SKELETON.TEX         Last updated 28-NOV-1997

% Skeleton LaTeX file for contributions to the
% TRIUMF Annual Report Scientific Activities 1997
% in LaTeX2e format.

\documentclass{article}
\usepackage{latexsym,multicol,epsfig,rotating}

%\usepackage{draftcopy}
%\usepackage{draftcopy_990,calc,macros97}

\makeatletter
\renewcommand{\section}
 {\@startsection{section}{1}{\z@}%
 {1.5ex plus 0.5ex minus 1.2ex}{1.3ex plus 0.1ex}%
 {\normalsize\bfseries\mathversion{bold}}}
\renewcommand{\subsection}
 {\@startsection{subsection}{2}{\z@}%
 {1.5ex plus 0.5ex minus 1.2ex}{1.3ex plus 0.1ex}%
 {\normalsize\bfseries\mathversion{bold}}}
\renewcommand{\subsubsection}
 {\@startsection{subsubsection}{3}{\z@}%
 {1.5ex plus 0.5ex minus 1.2ex}{1.3ex plus 0.1ex}%
 {\small\bfseries\mathversion{bold}}}
\renewcommand{\paragraph}
 {\@startsection{paragraph}{4}{\z@}%
 {1.5ex plus 0.5ex minus 1.2ex}{1.3ex plus 0.1ex}%
 {\footnotesize\bfseries\mathversion{bold}}}
\makeatother

\newcounter{time}
 \setcounter{time}{\time}

\newcounter{hours}
\newcounter{minutes}
\newcommand{\ptime}{%
 \setcounter{hours}{\time/60}%
 \setcounter{minutes}{\time-\value{hours}*60}%
  \thehours :\theminutes}

\makeatletter
\renewcommand{\ps@plain}{%
 \renewcommand{\@oddfoot}{\rmfamily\rightmark \hfil
  {\tiny
   Experiment X
   \ \ldots \ \
\thetime
%\ptime
   \ \ \today \ \ \ldots \ \ } \thepage \hfil}
 \renewcommand{\@evenfoot}{\@oddfoot}}
\makeatother

\textwidth     175mm
\oddsidemargin  -5mm
\topmargin     -18mm
\textheight    230mm
\columnsep       9mm
\flushbottom
\frenchspacing
\pagestyle{plain}


\begin{document}
\begin{multicols}{2}

%#############################################
% All contributors must provide their contact
% information after the colons below.

% Name         :
% E-mail       :
% TRIUMF Tel # :

% OFF-SITE CONTRIBUTORS ONLY:

% Tel # :
% FAX # :
%#############################################
```

```
%@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
% Contribution heading for Science Division
% experiment reports ONLY.
% Contributors from other divisions should
% delete or comment out these lines.
% Replace keywords with relevant information.

\subsection*{Experiment X \\
 Experiment title \\
 \textnormal{\emph{
 (Spokesperson, Affiliation)
}}}
%@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

%*******************************************
% Contribution heading for other divisions.
% Science Division contributors should
% delete or comment out these lines.

\subsection*{Type contribution heading here }
%*******************************************


% Enter main text of contribution here.

   Main text.


\subsubsection*{Type subsubsection heading here }

% Enter subsubsection text here.
% Use as many subsubsections as required.

   Subsubsection text.


\paragraph*{Type paragraph heading here }

% Enter paragraph text here.
% Use as many paragraphs as required.

   Paragraph text.


%*********************************
% Skeleton table - insert in text.
%*********************************

\vspace*{3mm}
\noindent
Table I.  Please provide a concise table caption.

\vspace*{3mm}
\noindent
\begin{tabular*}{83mm}{@{\extracolsep{\fill}}lcc}
 \hline\hline
Column 1 & Column 2 & Column 3 \\ \hline
text     & text     & text     \\
or       & or       & or       \\
numbers  & numbers  & numbers  \\
\vdots   & \vdots   & \vdots   \\ \hline\hline
\end{tabular*}
\vspace*{3mm}


%*****************
% Skeleton figure.
%*****************

\begin{center}
\epsfig{figure=n_1.eps,width=\linewidth}
\end{center}
\noindent
Fig. 1.  Please provide a concise figure caption.
\vspace*{3mm}

%***********************************
% Skeleton figure requiring rotation.
%***********************************

\begin{center}
%\begin{turn}{-90}                            % VAX/VMS
%\epsfig{figure=n_2.eps,height=\linewidth} % VAX/VMS
%\end{turn}                                  % VAX/VMS
\epsfig{figure=n_2.eps,height=\linewidth,angle=90}
\end{center}
\noindent
Fig. 2.  Please provide a concise figure caption.
\vspace*{3mm}


%*************************************************
% For all contributions, list below all journal or
% conference publications published, in press,
% or submitted during 1997.
%*************************************************

   Publications:

%*****************************************************
% For all contributions, list below all theses awarded
% in association with the work during 1997.  Provide
% name, thesis title, type of degree, department and
% institution awarding degree.
%*****************************************************

   Theses:

%****************************************************
% For Science Division experiment contributions ONLY,
% list the names and affiliations of all people
% presently associated with the experiment and the
% present status of the experiment.
% Information will be used to update Appendix D and
% Appendix E.
%****************************************************

   Appendix D and Appendix E update:


\end{multicols}
\end{document}
```