The HEP-PAPER package* Publications in high energy physics

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Abstract

The HEP-PAPER package aims to provide a single style file containing most configurations and macros necessary to write appealing publications in High Energy Physics. Instead of reinventing the wheel by introducing newly created macros HEP-PAPER preferably loads third party packages as long as they are lightweight enough.

Contents

1	roduction
	Options
2	acros and environments
	Title page
	Text
	Math
	Floats
	Bibliography
3	nclusion

^{*}This document corresponds to hep-paper v1.8.

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1 Introduction

For usual publications it is enough to load additionally to the article class without optional arguments only the HEP-PAPER package [1].

\documentclass{article} \usepackage{hep-paper}

The most notable changes after loading the HEP-PAPER package is the change of some LATEX defaults. The paper and font sizes are set to A4 and 11 pt, respectively. Additionally, the paper geometry is adjusted using the Geometry package [2]. Furthermore, the font is changed to latin modern using the CFR-LM package [3] with MICROTYPE [4] optimizations. Finally, portable document format (PDF) hyperlinks are implemented with the HYPERREF package [5]. If only subset of the functionality is needed one of the smaller style files HEP-TITLE, HEP-ACRONYMS, and HEP-BIBLIOGRAPHY containing only the macros relevant to sections 2.1, 2.2.2, and 2.5, respectively.

hep-bibliography

hep-title

hep-acronyms

1.1 Options

paper The paper= $\langle format \rangle$ option loads the specified paper format. The possible $\langle formats \rangle$ are: ao, a1, a2, a3, a4, a5, a6, bo, b1, b2, b3, b4, b5, b6, co, c1, c2, c3, c4, c5, c6, ansia, ansib, ansic, ansid, ansie, letter, executive, legal. The default is a4.

font The font= $\langle size \rangle$ option loads the specified font size. The possible $\langle sizes \rangle$ are: 8pt, 9pt, 1opt, 11pt, 12pt, 14pt, 17pt, 2opt. The default is 11 pt.

lang The lang= $\langle name \rangle$ option switches the document language to one of the values provided by the BABEL package [6]. The default is british.

sansserif The sansserif option switches the document including math to sans serif font shape.

oldstyle The oldstyle option activates the use of oldstyle text- (123) in favour of lining- (123) figures in text mode.

parskip The parskip option changes how paragraphs are separated from each other using the PARSKIP package [7]. The LATEX default is separation via indentation the parskip option switches to separation via vertical space.¹

symbols The symbols= $\langle family \rangle$ set the family of the symbol fonts. symbols=ams loads the two $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ fonts [8] and the BM bold fonts. The default symbols=true replaces additionally the blackboard font with the DSFONT [9]. symbols=minion switches the symbol fonts to the Adobe MinionPro companion font from the MNSYMBOL package [10]. symbols=false deactivates loading any additional symbol fonts.

1.1.1 Deactivation

The HEP-PAPER package loads few bigger packages which have a large impact on the document. The deactivation options can prevent such and other adjustments.

¹ Although the parskip option is used for this document, it is recommended only for very few document types such as technical manuals or answers to referees.

defaults The defaults option prevents the adjustment of the page geometry and the font size set by the document class.

title The title=false option deactivates the title page adjustments.

bibliography The bibliography= $\langle key \rangle$ option prevents the automatic loading of the bibliography age [11] if $\langle key \rangle$ =false. Otherwise the $\langle key \rangle$ is passed as style string to the bibliography age [12] if $\langle key \rangle$ =false. Otherwise the $\langle key \rangle$ is passed as style string to the bibliography.

glossaries The glossaries=false option deactives acronyms and the use of the GLOSSARIES package [12].

references The references—false option prevents the CLEVEREF package [13] from being loaded and deactivates further redefinitions of reference macros.

1.1.2 Compatibility

The compatibility options activate the compatibility mode for certain classes and packages used for publications in high energy physics. They are mostly suitable combinations of options described in the previous section. If HEP-PAPER is able to detect the presence of such a class or package, *i.e.* if it is loaded before the HEP-PAPER package, the compatibility mode is activated automatically.

beamer The beamer option activates the BEAMER [14] compatibility mode.

jhep The jhep option activates the JHEP [15] compatibility mode.

jcap The jcap option activates the JCAP [16] compatibility mode.

revtex The revtex option activates the REVTEX [17] compatibility mode.

pos The pos option activates the PoS compatibility mode.

springer The springer option activates the compatibility mode the svjour class [18].

1.1.3 Reactivation

The HEP-PAPER package deactivates unrecommended macros, which can be reactivated manually.

manualplacement The manualplacement option reactivates manual float placement.

equarray The equarray option reactivates the depreciated equarray environment.

2 Macros and environments

twocolumn If the global twocolumn option is present the page geometry is changed to cover almost the entire page. Additionally the abstract* environment is defined that generates a one column abstract and takes care of placing the title information.

2.1 Title page

The \series $\{\langle series \rangle\}$ macro is defined using the TITLING package [19]. The PDF meta information is set according to the \hat{text} and \hat{text} information. \subtitle The $\left\langle subtitle \right\rangle$ macro is defined. In order to facilitate multiple authors with different affiliations the AUTHBLK pack-\editor age [20] is loaded. The following lines add e.g. two authors with different affiliations \author \author[1]{Author one \email{email one}} \affiliation \affiliation[1]{Affiliation one} \email \author[2]{Author two \email{email two}} \affiliation[1,2]{Affiliation two} The $\operatorname{preprint}\{\langle numer\rangle\}$ macro places a pre-print number in the upper right corner \preprint of the title page. The abstract environment is adjusted to not start with an indentation. abstract Various title font macros are defined, allowing to change the appearance of the \titlefont \maketitle output. \subtitlefont \authorfont 2.2 Text \affiliationfont Hyphenation is provided by the BABEL package [6] and quotation commands are \preprintfont provided by the csquotes package [21]. The latter package provides the convenient macros $\ensuremath{\mbox{\mbox{\mbox{\sim}}}}$ and $\ensuremath{\mbox{\mbox{\mbox{\sim}}}}$ allowing to leave the choice of \enquote quotation marks to IAT_FX and use ... instead of the pair ... and ..., respectively. \MakeOuterQuote The foreign package [22] defines macros such as \eq. \ie, \cf, and \vs which are typeset as e.g., i.e., cf., and vs.\vs The $\setminus no\{\langle number \rangle\}$ macro is typeset as \mathbb{N}_{2} 123. \no The $\scalebox{ } \scalebox{ }$ \software The $\langle url \rangle \{\langle text \rangle\}$ macro combines the features of the $\langle url \rangle \{\langle text \rangle\}$ \online [5] and the $\operatorname{url}\{\langle text \rangle\}$ [23] macros, resulting in e.g. ctan.org/pkg/hep-paper. The inlinelist and enumdescript environments are defined using the ENUMITEM packinlinelist age [24]. enumdescript The three main points are i) one, ii) two, The three main points are and iii) three. \begin{inlinelist} \item one \item two \item three \end{inlinelist}

\begin{enumdescript}[label=\Roman*)] \item{First} one \item{Second} two \item{Third} three \end{enumdescript}

I) **First** one

II) **Second** two

III) Third three

\textsc A bold versions SMALL CAPS and a sans serif version of SMALL CAPS based on the computer modern font [25] is provided, the latter using the SANSMATHFONTS pack-

\underline \overline

The \underline macro is redefined to allow line-breaks using the ULEM package [27]. The \overline macro is extended to also overline text outside of math environments.

\useparskip \useparindent If the parskip option is activated the \useparindent macro switches to the usual parindent mode, while the \useparskip macro switches to the parskip mode.

References and footnotes

\cref References are extended with the CLEVEREF package [13], which allows to e.g. just type $\mathsf{cref}\{\langle key \rangle\}$ in order to write 'figure 1'. Furthermore, the CLEVEREF package allows to reference multiple objects within one $\langle \text{cref}\{\langle key1, key2\rangle\}\}$.

\cite Citations are adjusted to not start on a new line in order to avoid the repeated use of $\sim \text{cite}\{\langle key \rangle\}.$

References are also adjusted to not start on a new line.

\eqref Footnotes are adjusted to swallow white space before the footnote mark and at the beginning of the footnote text. \subref

\footnote

2.2.2 Acronyms

\acronym

\shortacronym

\longacronym

The $\langle x \rangle = \frac{1}{2} \left[\langle y \rangle + \langle x \rangle \right] \left[\langle y \rangle \right]$ definition macro generates the singular $\langle abbreviation \rangle$ and plural $\langle abbreviation \rangle$ s macros. The first star prevents the addition of an 's' to the abbreviation plural. The second star restores the T_FX default of swallowing subsequent white space. The long form is only shown at the first appearance of these macros, later appearances generate the abbreviation with a hyperlink to the long form. The long form is never used in math mode. Capitalization at the beginning of paragraphs and sentences is (mostly) ensured. The \shortacronym and \longacronym macros are drop-in replacements of the \acronym macro showing only the short or long form of their acronym. The first use form of the acronym can be enforced by resetting the acronym counter with \resetacronym{ $\langle key \rangle$ }. If the acronym counter equals one at the end of the document the short form of the acronym is not introduced. Placing a \dummyacronym{ $\langle key \rangle$ } at the end of the document ensures that the short form is introduced.

\resetacronym \dummyacronym

2.3 Math

The MATHTOOLS [28] and AMSSYMB [8] packages are loaded. They in turn load the AMS-IATEX AMSMATH [29] and AMSFONTS [8] packages. Bold math, via \mathbf is \mathbf improved by the BM package [30], i.e. $(Ab\Gamma\delta Ab\Gamma\delta)$. Macros switching to bfseries such as \section{ $\langle text \rangle$ } are ensured to also typeset math in bold. The \text{ $\langle text \rangle$ } \text macro makes it possible to write text within math mode, i.e. $(Ab\Gamma\delta Ab\Gamma\delta)$. The \mathsf math sans serif alphabet is redefined to be italic sans serif if the main text is serif and italic serif if the main text is sans serif, i.e. $(Ab\Gamma\delta Ab\Gamma\delta)$. The \mathcal font i.e. \mathscr (\mathcal{ABCD}) is accompanied by the \mathscr font i.e. (\mathcal{ABCD}) . The \mathbb font is \mathbb improved by the DOUBLESTROKE package [9] and adjusted depending on the sansserif \mathfrak option i.e. (Ah1). Finally, the \mathfrak font is also available i.e. (2a3b12). Details about the font handling in T_FX can be found in reference [31].

\diag The \mathdef{\(\lambda ame\\)}[\(\lambda arguments\\)]{\(\lambda code\\)} macro (re-)defines macros only within \sgn math mode without changing the text mode definition.

 $\mbox{\begin{tikzpicture} \label{tikzpic} \label{tikzpic} \label{tikzpic} \mbox{\begin{tikzpicture} \label{tikzpic} \label{tikzpic} \mbox{\begin{tikzpicture} \mbo$

For longer paper it can be useful to re-number the equation in accordance with the section numbering \numberwithin{equation}{section}. In order to further reduce the size the of equation counter it can be useful to wrap align environments with multiple rows in a subequations environment. Both macros are provided by the AMSMATH package.

eqnarray The depreciated eqnarray environment is undefined as long this behaviour is not prevented by the eqnarray package option. The split, multline, align, multlined, aligned, alignedat, and cases environments of the AMSMATH and MATHTOOLS packages should be used instead.

equation Use the equation environment for short equations.

```
 \begin{array}{ll} \mbox{left} = \mbox{right} \ . & \mbox{left} = \mbox{right} \ . & \mbox{1} \\ \mbox{end} \{ \mbox{equation} \} & \mbox{left} = \mbox{left} = \mbox{left} \ . & \mbox{left} \\ \end{array}
```

multline Use the multline environment for longer equations.

split Use the split sub environment for equations in which multiple equal signs should be aligned.

align Use the align environment for the vertical alignment and horizontal distribution of multiple equations.

aligned Use the aligned environment within a equation environment if the aligned equations should be labeled with a single equation number.

multlined Use the multlined environment if either split or align contain very long lines.

$$\label{left} $$ \begin{array}{ll} \begin{array}{ll} \begin{array}{ll} \begin{array}{ll} \begin{array}{ll} \begin{array}{ll} \begin{array}{ll} \begin{array}{ll} \begin{array}{ll} \end{array} \end{array} \end{array} \end{array} & \begin{array}{ll} \begin{array}{ll} \begin{array}{ll} \end{array} \end{array} \end{array} & \begin{array}{ll} \end{array} \end{array} & \begin{array}{ll} \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \begin{array}{ll} \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \end{array} & \begin{array}{ll} \\ & \end{array} & \begin{array}{ll} \\ & \end{array} & \begin{array}{ll} \\ & \end{array} & \begin{array}{ll} \\ & \end{array} & \begin{array}{ll} \\ & \end{array} & \begin{array}{ll} \\ &$$

alignat Use the alignat environment together with the \mathllap macro for the alignment of multiple equations with vastly different lengths.

As a rule of thumb if you have to use \notag, \nonumber, or perform manual spacing via \quad you are probably using the wrong environment.

2.3.1 Physics

\unit The correct spacing for units, cf equation (7), is provided by the macro \unit[$\langle value \rangle$] $\{\langle unit \rangle\}$ from the units package [32] which can also be used in text mode. The macro $\langle unit \rangle = \langle value \rangle$

Greek letters are adjusted to always be italic and upright in math and text mode, respectively, using the fixmath [33] and alphabeta [34] packages. This allows differentiations like

$$\sigma = 5 \,\text{fb}$$
, at $5 \,\sigma$ C.L., $\mu = 5 \,\text{cm}$, $l = 5 \,\mu\text{m}$. (7)

\begin{panels}{2}				
code		tv	two	
\panel			4	
\begin{tabular}\end{tabular}	a b	-		
\end{panels}	р	$^{\mathrm{c}}$	d	

(a) Code for this panel environment.

(b) The booktabs and multirow features.

Table 1: Example use of the panels environment in Panel (a) and the features from the BOOKTABS and MULTIROW packages in Panel (b).

Additionally, Greek letters can also be directly typed using Unicode.

The Physics package [35] provides additional macros such as

\pdv $\langle \phi \rangle \; , \qquad \frac{\partial^n f}{\partial x^n} \; , \qquad [A,B] \; , \qquad \mathcal{O}(x^2) \; , \qquad x|_0^\infty \; ,$ $\det(M)$. (8)\comm

\order

The $\colone{cancel{characters}}$ macro from the Cancel package [36] and the \slashed \cancel $\{\langle character \rangle\}$ macro from the SLASHED package [37] allow to cancel math and use the Dirac slash notation *i.e.* \emptyset , respectively. \slashed

A better looking over left right arrow is defined i.e. $\overrightarrow{\partial}$. \overleftright

Floats 2.4

Automatic float placement is adjusted to place a single float at the top of pages and figure to reduce the number of float pages, using the LATEX macros. table

\setcounter{bottomnumber}{o} no floats at the bottom of a page (default 1) \setcounter{topnumber}{1} a single float at the top of a page (default 2) \setcounter{dbltopnumber}{1} same for full widths floats in two-column mode \renewcommand{\textfraction}{.1} large floats are allowed (default 0.2) \renewcommand{\topfraction}{.9} (default 0.7) \renewcommand{\dbltopfraction}{.9} (default 0.7) float pages must be full (default 0.5) \renewcommand{\floatpagefraction}{.8}

Additionally, manual float placement is deactivated but can be reactivated using the manualplacement package option. It is however recommended to archive the desired design by adjusting above macros. The most useful float placement is usually archived by placing the float in front of the paragraph it is referenced in first. The float environments have been adjusted to center their content. The usual behaviour can be reactivated using \raggedright.

\raggedright

The panels environment makes use of the SUBCAPTION package [38]. It provides sub-floats and takes as mandatory argument either the number of sub-floats (de-\panel fault 2) or the width of the first sub-float as fraction of the \linewidth. Within the $\left[\operatorname{panels}\right]$ (vertical alignment)] $\left(\operatorname{width}\right)$ environment the $\left[\operatorname{panel macro}\right]$ initiates a new sub-float. In the case that the width of the first sub-float has been

given as an optional argument to the panels environment the \panel{width} macro takes the width of the next sub-float as mandatory argument. The example code is presented in table 1a.

tabular The BOOKTABS [39] and MULTIROW [40] packages are loaded enabling publication quality tabulars such as in table 1b.

 \graphic

The GRAPHICX package [41] is loaded and the $\graphic[\langle width \rangle] \{\langle figure \rangle\}$ macro is defined, which is a wrapper for the $\includegraphics\{\langle figure \rangle\}$ macro and takes the figure width as fraction of the \linewidth as optional argument (default 1). If the graphics are located in a sub-folder its path can be indicated by $\graphics\{\langle subfolder \rangle\}$.

2.5 Bibliography

\bibliography \printbibliography

The BIBLATEX package [11] is loaded for bibliography management. The user has to add the line $\langle bibliography \{\langle my.bib\rangle\}$ to the preamble of the document and $\langle printbibliography$ at the end of the document. The bibliography is generated by BIBER [42]. biblatex is extended to be able to cope with the collaboration and reportNumber fields provided by inspirehep.net and a bug in the volume number is fixed. Additionally, the PubMed IDs are recognized and ctan.org, github.com, gitlab.com, bitbucket.org, launchpad.net, sourceforge.net, and hepforge.org are valid eprinttypes. Errata can be included using the related feature.

erratum

```
\article{key1,
    ...,
    relatedtype="erratum",
    related="key2",
}
\article{key2,
    ...,
}
```

3 Conclusion

The HEP-PAPER package provides a matching selection of preloaded packages and additional macros enabling the user to focus on the content instead of the layout by reducing the amount of manual tasks. The majority of the loaded packages are fairly lightweight, the others can be deactivated with package options.

arxiv-collector

arxiv.org [43] requires the setup dependent bbl files instead of the original bib files, which causes trouble if the local LATEX version differs from the one used by arXiv. The ARXIV-COLLECTOR python script [44] alleviates this problem by collecting all files necessary for publication on arXiv (including figures).

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