The SVJour document class users guide supplement for *The European Physical Journal*

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1 Introduction

This document describes the *epj* option for the SVJour LaTeX 2ε document class. For details on manuscript handling and the review process we refer to the *Instructions for authors* in the printed journal. For style matters please consult previous issues of the journal.

2 Initializing the class

As explained in the main *Users guide* you can begin a document for *The European Physical Journal* by including

```
\documentclass[epj]{svjour}
```

as the first line in your text. For the journal part "C" (i.e. Particles and Fields) you should use the option `nopacs` in addition – for more, see below. All other options are also described in the main *User guide*.

3 Changes to the SVJour class standard

As the abstract of your article is to appear in the header section, it must be coded before the `\maketitle` command. Do not use the `\begin{abstract}` ...`\end{abstract}` environment of standard LaTeX. Instead proceed as you do for the other front matter declarations:

```
\abstract {⟨Text of your abstract⟩}
```

The standard key words are replaced by the *Physics and Astronomy Classification Scheme* numbers. See `http://www.aip.org/pacs/pacs.html` for more info about this; you can also download the scheme from there.

Code the PACS numbers with

```
\PACS{
  {⟨PACS code⟩}{⟨describing text⟩}
}
```

at the end of (but still inside) the abstract declaration. If there is more than one PACS code the pairs of number and describing text should be separated by `\and`. Please make sure every PACS code is followed by the corresponding text. An example of two PACS codes is:

```
\PACS{
   {47.27.Jv}{High-Reynolds-number turbulence} \and
   {02.50.Ey}{Stochastic processes}
}
```

Another example can be found in the demonstration file.

3.1 Fonts

This journal will be typeset with the standard CM Fonts. Hence the inclusion of the `times` package – as described in the *Users guide* – is not necessary.

4 Changes to the SVJour class standard for particular journal parts

As mentioned above the journal part *C – Particles and Fields* does not use any PACS numbers. Specify the additional option `nopacs` in your `\documentclass` command to skip the mandatory PACS coding in your frontmatter section:

```
\documentclass[epj,nopacs]{svjour}
```

There may also be articles from collaborations with a great number of authors and addresses. The page makeup for the two-column version will fail if the front matter part exeeds a whole page. To cope whith that a command `\hugehead` has been introduced to temporarily switch back to one-column processing of the front matter (typeset by the `\maketitle` command). Code `\hugehead` directly after the `\begin{document}` line for such articles.

For the time being two pages with identical page number are produced that contain the end of the one-column front matter and the start of the two-column article text that are merged at the printers. The automatic generation of running heads is also suppressed by `\hugehead`. If a running title is needed you have to supply it by using the `\markboth` command of LaTeX.