LATEX2e SVMULT Document Class Version 5.x Reference Guide for Contributed Books

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1 Introduction

This reference guide gives a detailed description of the \LaTeX SVMULT document class Version 5.x and its special features designed to facilitate the preparation of scientific books for Springer. It always comes as part of the SVMULT tool package and should not be used on its own.

The components of the SVMult tool package are:

• The Springer IATEX class SVMult.cls, MakeIndex styles svind.ist, svindd.ist, BibTeX styles spmpsci.bst, spphys.bst, spbasic.bst as well as the templates with preset class options, packages and coding examples:

Tip: Copy all these files to your working directory, run LaTeX 2ε , BibTeX and MakeIndex—as is applicable— and and produce your own example *.dvi file; rename the template files as you see fit and use them for your own input.

• Author Instructions with style and coding instructions.

Tip: Follow these instructions to set up your files, to type in your text and to obtain a consistent formal style in accordance with Springer's layout specifications; use these pages as checklists before you submit your manuscript data.

• The Reference Guide describing SVMult features with regards to their functionality.

Tip: Use it as a reference if you need to alter or enhance the default settings of the SVMULT document class and/or the templates.

For editors only the SVMULT tool package is enhanced by

• the *Editor Instructions* for compiling multiple contributions to a mutual book.

The documentation in the Springer SVMULT tool package is not intended to be a general introduction to IATEX 2ε or TEX. For this we refer you to [1–3].

Should we refer in this tool package to standard tools or packages that are not installed on your system, please consult the *Comprehensive T_EX Archive Network* (CTAN) at [4–6].

SVMULT was derived from the \LaTeX 2ε article.cls. Should you encounter any problems or bugs in the SVMULT document class please contact

texhelp@springer.de.

The main differences from the standard article class are the presence of

- multiple Springer class options,
- a number of newly built-in environments for individual text structures like theorems, exercises, lemmas, proofs, etc.,
- enhanced environments for the layout of figures and captions, and
- new declarations, commands and useful enhancements of standard environments to facilitate your math and text input and to ensure their output conforms with Springer layout standards.

Nevertheless, text, formulae, figures, and tables are typed using the standard LATEX 2ε commands. The standard sectioning commands are also used.

Always give a \label where possible and use \ref for cross-referencing. Such cross-references may then be converted to hyperlinks in any electronic version of your book.

The \cite and \bibitem mechanism for bibliographic references is also obligatory.

2 SVMult Class Features – Contribution-wise

2.1 Initializing the SVMult Class

To use the document class, enter

 $\documentclass [\langle options \rangle] \{svmult\}$

at the beginning of your input.

2.2 SVMult Class Options

Choose from the following list of class options if you need to alter the default layout settings of the Springer SVMULT document class. Please note that the optional features should only be chosen if instructed so by the editor of your book.

Page Style

default twoside, single-spaced output, contributions starting always

on a recto page

referee produces double-spaced output for proofreading

footinfo generates a footline with name, date, ...

at the bottom of each page

norunningheads suppresses any headers and footers

N.B. If you want to use both options, you must type referee before footinfo.

Body Font Size

default 10 pt 11pt, 12pt are ignored

Language for Fixed LATEX Texts

In the SVMULT class we have changed a few standard LATEX texts (e.g. Figure to Fig. in figure captions) and assigned names to newly defined theorem-like environments so that they conform with Springer style requirements.

default English

deutsch translates fixed LATEX texts into their German equivalent

francais same as above for French

Text Style

default plain text

graybox automatically activates the packages color and framed

and places a box with 15 percent gray shade in the background

of the text when you use the SVMULT environment

\begin{svgraybox}...\end{svgraybox}, see Sects. 2.3, 2.4.

Equations Style

default centered layout, vectors boldface (math style)
vecphys produces boldface italic vectors (physics style)

when \vec-command is used

vecarrow depicts vectors with an arrow above when \vec-command

is used

Numbering and Layout of Headings

default all section headings down to subsubsection level are num-

bered, second and subsequent lines in a multiline numbered heading are indented; Paragraph and Subparagraph headings are displayed but not numbered; figures, tables and equations are numbered chapterwise, individual theoremlike environments are counted consecutively throughout the

book.

nosecnum suppresses any section numbering; figures, tables and

equations are counted chapterwise displaying the chapter

counter, if applicable.

Numbering and Counting of Built-in Theorem-Like Environments

default each built-in theorem-like environment gets its own

counter without any chapter or section prefix and is

reset for each unnumbered contribution.

envcountchap Each built-in environment gets its own counter and

is numbered chapterwise. To be selected as default setting for a volume with numbered contributions.

envcountsect each built-in environment gets its own counter and

is numbered sectionwise

environments follow a single counter

without any chapter or section prefix, and are

counted consecutively throughout the book

envcountresetchap each built-in environment gets its own counter with-

out any chapter or section prefix but with the counter

reset for each chapter

envcountresetsect each built-in environment gets its own counter with-

out any chapter or section prefix but with the counter

reset for each section

N.B.1 When the option *envcountsame* is combined with the options *envcount-resetchap* or *envcountresetsect* all predefined Springer environments get the same counter; but the counter is reset for each chapter or section.

N.B.2 When the option *envcountsame* is combined with the options *envcountchap* or *envcountsect* all predefined Springer environments get a common counter with a chapter or section prefix; but the counter is reset for each chapter or section.

N.B.3 We have designed a new easy-to-use mechanism to define your own environments, see Sect. 2.6.

N.B.4 Be careful not to use layout options that contradict the parameter of the selected environment option and vice versa.

Warning!

Use the Springer class option

nospthms only if you want to suppress all Springer theorem-like

environments and use the theorem environments of original LATEX package or other theorem packages instead.

(Please check this with your editor.)

References

default the list of references is set as an unnumbered section at

the end of your contribution, with automatically correct running heads and an entry in the table of contents. The list itself is set in small print and numbered with ordinal

numbers.

chapter sets the reference list as an unnumbered chapter

e.g. at the end of the book

natbib sorts reference entries in the author-year system

(make sure that you have the natbib package by Patrick W. Daly installed. Otherwise it can be found at the *Comprehensive TeX Archive Network* (CTAN...texarchive/macros/latex/contrib/supported/natbib/), see [4–

6

oribibl use the Springer class option only if you want to set refer-

ence numbers in square brackets without automatic TOC entry etc., as is the case in the original LATEX bibliography environment. But please note that most page layout features are nevertheless adjusted to Springer requirements. (Please check usage of this option with your editor.)

2.3 Required and Recommended Packages

SVMULT document class has been tested with a number of Standard L^AT_EX tools. Below we list and comment on a selection of recommended packages for preparing fully formatted book manuscripts for Springer Verlag. If not installed on your system, the source of all standard L^AT_EX tools and packages is the Comprehensive T_EX Archive Network (CTAN) at [4–6].

Font Selection

default Times font family as default text body font together with

Helvetica as sans serif and Courier as typewriter font.

mathptmx.sty defines Times Roman as default text font, and provides

maths support using glyphs from the Symbol, Chancery and Computer Modern fonts together with letters, etc.,

from Times Roman.

helvet.sty defines Helvetica as sans serif font. courier.sty defines Helvetica as typwriter font.

If the packages 'mathptmx.sty, helvet.sty, courier.sty' are not already installed with your IATEX they can be found at .../tex-archive/fonts/psfonts/psnfss-source/ at the Comprehensive TEX Archive Network (CTAN), see [4–6].

If Times Roman is not available on your system you may revert to CM fonts. However, the SVMULT layout requires font sizes which are not part of the default set of the computer modern fonts.

type1cm.sty The type1cm package enhances this default by en-

abling scalable versions of the (Type 1) CM fonts. If not already installed with your LATEX it can be found at ../tex-archive/macros/latex/contrib/type1cm/ at the Comprehensive TeX Archive Network (CTAN), see [4–6].

Body Text

When you select the SVMULT class option [graybox] the packages framed and color are required, see Sect. 2.2.

framed.sty makes it possible that framed or shaded regions can

break across pages.

color.sty is part of the graphics bundle and makes it possible to

selct the color and define the percentage for the back-

ground of the box.

Equations

A useful package for subnumbering each line of an equation array can be found at ../tex-archive/macros/latex/contrib/supported/subequarray/ at the *Comprehensive TEX Archive Network*(CTAN), see [4–6].

subequarray.sty defines the subequarray and subequarray* environ-

ments, which behave like the equivalent eqnarray and eqnarray* environments, except that the individual

lines are numbered as 1a, 1b, 1c, etc.

Footnotes

footmisc.sty used with style option [bottom] places all footnotes at

the bottom of the page

Figures

graphicx.sty tool for including graphics files (preferrably eps files)

References

default Reference lists are numbered with the references being

cited in the text by their reference numbert

natbib.sty sorts reference entries in the author-year system (among

other features). N.B. This style must be installed when

the class option natbib is used, see Sect. 2.2

cite.sty generates compressed, sorted lists of numerical citations:

e.g. [8,11–16]; preferred style for books published in a

print version only

Index

makeidx.sty provides and interprets the command \printindex

which "prints" the externally generated index file *.ind.

multicol.sty balances out multiple columns on the last page of your

subject index, glossary or the like

N.B. Use the MakeIndex program together with one of the Springer styles

svind.ist for English texts

svindd.ist for German texts

to generate a subject index automatically in accordance with Springer layout requirements. For a detailed documentation of the program and its usage we refer you to [1].

2.4 SVMult Commands and Environments in Text Mode

Use the command

\title*{}

to typeset an unnumbered heading of your contribution.

\title{}

to typeset a numbered heading of your contribution.

Use the new command

$\$ \subtitle[$\langle subtitle \rangle$]

to typeset a possible subtitle to your contribution title. Beware that this subtitle is not transferred automatically to the table of contents.

Alternatively use the **\title**-command to typeset your subtitle together with the contribution title and separate the two titles by a period or an en-dash .

Alternative!

Use the command

\toctitle{}

if you want to alter the line break of your heading for the table of content.

Use the command

\titlerunning{}

if you need to abbreviate your heading to fit into the running head.

Use the command

\author{}

for your name(s). If there is more than one author, the names should be separated by \and.

The author names will appear beneath the contribution's title.

Use the command

\tocauthor{}

to change manually the list of authors to appear in the table of contents.

Use the command

\authorrunning{}

if there are more than two authors; abbreviate the list of authors to the main author's name and add "et al." for the running head.

Use the command

when the authors' names and affiliations shall appear at the bottom of the contribution's first page.

Please list multiple authors and/or affiliations by using the command \and, cf. the example below:

```
\institute{J.B. Doe
\at Doe Institute, 281 Prime Street, Daisy Town, NA 02467,USA\\
Tel.: +127-47-678901, Fax: +127-47-678907
\and
J.B. Doe
\and
S.Q. Public
\at Public-Enterprises
\and
J.A. Smith
\at Smith University,\email{smith@smith.edu}}
```

\maketitle

to compile the header of your contribution.

To create and format a short table of contents enter prior to the command \dominitoc, see below

\setcounter{minitocdepth} $\{\langle n \rangle\}$

with n depicting the highest sectioning level of your short table of content (default is 0) and then enter

\dominitoc

Use the new command

$\mbox{\mbox{motto}} [\langle textwidth \rangle] \{\langle text \rangle\}$

to include $special\ text$, e.g. mottos, slogans, between the chapter heading and the actual content of the chapter.

The default font size is "small", the default font shape is "italic".

In the optional argument $[\langle textwidth \rangle]$ alternative widths may be indicated.

The argument $\{\langle text \rangle\}$ contains the text of your inclusion. It may not contain any empty lines. To introduce vertical spaces use $\[\text{[height]} \]$.

The command must be placed before the **\title** command. Use the new commands

```
\abstract{\langle text \rangle} \abstract*{\langle text \rangle}
```

to typeset an abstract at the beginning of a contribution.

The text of \abstract* will not be depicted in the printed version of the book, but will be used for compiling html abstracts for the online publication of the individual chapters www.SpringerLink.com.

Please do not use the standard LATEXenvironment \textbf{Warning !!! \begin{abstract} . . .\end{abstract} - it will be ignored when used with the SVMULTdocument class!

Use the command

$\keywords{\langle keyword \ list \rangle}$

within the abstract environment to specify your keywords and/or subject classification.

Use the new commands

when you want to use unnumbered run-in headings to structure your text.

Use the new environment command

to typeset complete paragraphs within a box showing a 15 percent gray shade.

N.B. Make sure to select the SVMULT class option [graybox] in order to have all the required style packages available, see Sects. 2.2, 2.3.

Warning!

Use the new environment command

```
\begin{petit}\\ \langle text \rangle\\ \end{petit} \end{petit}
```

to typeset complete paragraphs in small print.

Use the enhanced environment command

```
\label{label1} $$ \left( \left| description \right| \left( \left| description \right| \right) \right) $$ \left( \left| description \right| \right) $$ \left( \left| description \right| \right) $$ \left( \left| description \right| \right) $$ \left( description \right) $$ \left( d
```

for your individual itemized lists.

The new optional parameter $\lceil \langle largelabel \rangle \rceil$ lets you specify the largest item label to appear within the list. The texts of all items are indented by the width of $\langle largelabel \rangle$ and the item labels are typeset flush left within this space. Note, the optional parameter will work only two levels deep.

Use the commands

```
\stitemindent{\langle largelabel \rangle}
\stitemindent{\langle largelabel \rangle}
```

if you need to customize the indention of your "itemized" or "enumerated" environments.

2.5 SVMult Commands in Math Mode

Use the new or enhanced symbol commands provided by the SVMULT document class:

\D	upright d for differential d
\I	upright i for imaginary unit
\E	upright e for exponential function
\tens	depicts tensors as sans serif upright
\vec	depicts vectors as boldface characters instead of the arrow accent

N.B. By default the SVMULT document class depicts Greek letters as italics because they are mostly used to symbolize variables. However, when used as operators, abbreviations, physical units, etc. they should be set upright.

All *upright* upper-case Greek letters have been defined in the SVMULT document class and are taken from the T_FX alphabet.

Use the command prefix

\var...

with the upper-case name of the Greek letter to set it upright, e.g. \varDelta.

Many upright lower-case Greek letters have been defined in the SVMULT document class and are taken from the PostScript Symbol font.

Use the command prefix



with the lower-case name of the Greek letter to set it upright, e.g. \umu.

If you need to define further commands use the syntax below as an example:

2.6 SVMult Theorem-Like Environments

For individual text structures such as theorems, definitions, and examples, the SVMULT document class provides a number of *pre-defined* environments which conform with the specific Springer layout requirements.

Use the environment command

```
\begin{ label{label} $\langle text\ for\ that\ environment \rangle } [\langle optional\ material \rangle ] \\ \langle text\ for\ that\ environment \rangle \\ \\ \end{ label} \label{label}
```

for the newly defined *environments*.

Unnumbered environments will be produced by

claim and proof.

Numbered environments will be produced by

case, conjecture, corollary, definition, example, exercise, lemma, note, problem, property, proposition, question, remark, solution, and theorem.

The optional argument $[\langle optional\ material \rangle]$ lets you specify additional text which will follow the environment caption and counter.

Use the new symbol command

\qed

to produce an empty square at the end of your proof.

In addition, use the new declaration

\smartqed

to move the position of the predefined qed symbol to be flush right (in text mode). If you want to use this feature throughout your book the declaration must be set in the *preamble*, otherwise it should be used individually in the relevant environment, i.e. proof.

Example

\begin{proof}
\smartqed
Text
\qed
\end{proof}

Furthermore the functions of the standard \newtheorem command have been enhanced to allow a more flexible font selection. All standard functions though remain intact (e.g. adding an optional argument specifying additional text after the environment counter).

Use the new Springer mechanism

```
\space{1mm} \spa
```

to define an environment compliant with the selected class options (see Sect. 2.2) and designed as the predefined Springer theorem-like environments.

The argument $\{\langle env \ name \rangle\}$ specifies the environment name; $\{\langle caption \rangle\}$ specifies the environment's heading; $\{\langle cap\ font \rangle\}$ and $\{\langle body\ font \rangle\}$ specify the font shape of the caption and the text body.

N.B. If you want to use optional arguments in your definition of a new theoremlike environment as done in the standard \newtheorem command, see below.

Use the new Springer mechanism

$\spin extheorem {\langle env \ name \rangle} [\langle numbered \ like \rangle] {\langle caption \rangle} {\langle cap \ font \rangle} {\langle body \ font \rangle}$

to define an environment that shares its counter with another predefined environment $[\langle numbered\ like \rangle]$.

The optional argument $[\langle numbered\ like \rangle]$ specifies the environment with which to share the counter.

 $\it N.B.$ If you select the class option "envcountsame" the only valid "numbered like" argument is [theorem].

Use the newly defined Springer mechanism

```
\verb|\spnewtheorem{$\langle env\ name\rangle$}{$\langle caption\rangle$}[\langle\langle within\rangle\rangle]{$\langle cap\ font\rangle$}{$\langle body\ font\rangle$}
```

to define an environment whose counter is prefixed by either the chapter or section number (use [chapter] or [section] for $[\langle within \rangle]$).

Use the newly defined Springer mechanism

to define an unnumbered environment such as the pre-defined unnumbered environments claim and proof.

Use the newly defined declaration

\nocaption

in the argument $\{\langle caption \rangle\}$ if you want to skip the environment caption and use an environment counter only.

Use the newly defined environment

```
\begin{theopargself}
...
\end{theopargself}
```

as a wrapper to any theorem-like environment defined with the Springer mechanism. It suppresses the brackets of the optional argument specifying additional text after the environment counter.

2.7 SVMult Commands for the Figure and Table Environments

Use the new declaration

$\sidecaption[\langle pos angle]$

to move the figure caption from beneath the figure (default) to the lower left-hand side of the figure.

The optional parameter [t] moves the figure caption to the upper left-hand side of the figure

N.B.1 (1) Make sure the declaration \sidecaption follows the \begin{figure} command, and (2) remember to use the standard \caption{} command for your caption text.

N.B.2 This declaration works only if the figure width is less than 7.8 cm. The caption text will be set ragged right if the width of the caption is less than 3.4 cm.

Use the new declaration

\samenumber

within the figure and table environment – directly after the \begin{\environment\} command – to give the caption concerned the same counter as its predecessor (useful for long tables or figures spanning more than one page, see also the declaration \subfigures below.

To arrange multiple figures in a single environment use the newly defined commands

\leftfigure $[\langle pos \rangle]$ and \rightfigure $[\langle pos \rangle]$

within a {minipage}{\textwidth} environment. To allow enough space between two horizontally arranged figures use \hspace{\fill} to separate the corresponding \includegraphics{} commands. The required space between vertically arranged figures can be controlled with \\[12pt], for example.

The default position of the figures within their predefined space is flush left. The optional parameter [c] centers the figure, whereas [r] positions it flush right – use the optional parameter only if you need to specify a position other than flush left.

Use the newly defined commands

\leftcaption{} and \rightcaption{}

outside the minipage environment to put two figure captions next to each other.

Use the newly defined command

$\mathsf{twocaptionwidth}\{\langle width \rangle\}\{\langle width \rangle\}$

to overrule the default horizontal space of 5.4 cm provided for each of the above-described caption commands. The first argument corresponds to \leftcaption and the latter to \rightcaption.

Use the new declaration

\subfigures

within the figure environment – directly after the \begin{figure} command – to subnumber multiple captions alphabetically within a single figure-environment.

N.B.: When used in combination with \samenumber the main counter remains the same and the alphabetical subnumbering is continued. It works properly only when you stick to the sequence \samenumber\subfigures.

If you do not include your figures as electronic files use the newly defined command

$\mbox{\label{linear} $$ \mathbf{w}idth${\label{linear} } {\label{linear} } $$$

to leave the desired amount of space for each figure. This command draws a vertical line of the height you specified.

Use the new command

\svhline

for setting in tables the horizontal line that separates the table header from the table content.

2.8 SVMult Environments for Exercises, Problems and Solutions

Use the environment command

```
\begin{prob} \\ label{problem:key} \\ \langle problem\ text \rangle \\ \\ label{problem} \end{prob} \\
```

to typeset and number each problem individually.

To facilitate the correct numbering of the solutions we have also defined a *solution environment*, which takes the problem's key, i.e. $\langle problem:key \rangle$ (see above) as argument.

Use the environment syntax

```
\begin{sol}{\langle problem:key\rangle}\\ \langle solution\ text\rangle\\ \begin{sol}\\ \end{sol}\\ \end{sol}
```

to get the correct (i.e. problem =) solution number automatically.

2.9 SVMult Commands for Styling References

The Springer command

```
\begin{tabular}{ll} \verb&\biblstarthook{} \{\langle text \rangle\} \end{tabular}
```

allows the inclusion of explanatory *text* between the bibliography heading and the actual list of references. The command must be placed before the thebibliography environment.

3 SVMult Class Features – Book-wise

In addition to the *Editor Instructions* and the details described in the previous sections of this *Reference Guide* you find below a list of further SVMULT class options, declarations and commands which you may find especially useful when compiling all contributions to a single book.

Use the environment syntax

```
\begin{dedication} \\ \langle text \rangle \\ \begin{dedication} \\ \begin{dedicati} \\ \begin{dedication} \\ \begin{dedication} \\ \begin{dedication}
```

to typeset a dedication or quotation at the very beginning of the in preferred Springer layout.

Use the new commands

\foreword \preface \contributors

to typeset a Foreword, Preface, or List of Contributors with automatically generated runnings heads.

Use the environment syntax

to list and style the names and affiliation details of the contributors in the preferred Springer layout.

Use the new commands

```
\label{eq:local_extrachap} $$ \operatorname{Extrachap}(\langle heading \rangle) $$
```

to typeset—in the front or back matter of the book—an extra unnumbered chapter with your preferred heading and automatically generated runnings heads. \Extrachap furthermore generates an automated TOC entry.

Use the new command

```
\partbacktext[\langle text 
angle]
```

to typeset a text on the back side of a part title page.

N.B. The command must be placed before the part-command.

Use the new command

```
\mbox{\mbox{motto}}\{\langle text \rangle\}
```

to include *special text*, e.g. mottos, slogans, between the chapter heading and the actual content of the chapter in the preferred Springer layout.

The argument $\{\langle text \rangle\}$ contains the text of your inclusion. It may not contain any empty lines. To introduce vertical spaces use $\\[\[\] \]$ [height].

If needed, the you may indicate an alternative widths in the optional argument.

N.B. The command must be placed before the relevant heading-command.

Use the new commands

```
\label{eq:labstract} $$ \abstract*{\langle text\rangle}$ $$ \abstract*{\langle text\rangle}$
```

to typeset an abstract at the beginning of a contribution.

The text of \abstract* will not be depicted in the printed version of the book, but will be used for compiling html abstracts for the online publication of the individual chapters www.SpringerLink.com.

Please do not use the standard LATEXenvironment

Warning !!!

 $\begin{abstract}...\end{abstract}-it\ will\ be\ ignored\ when\ used\ with\ the\ SVMultdocument\ class!$

Use the declaration

\appendix

after the \backmatter command to add an appendix at the end of the book. Use the \chapter command to typeset the heading.

The Springer declaration

\threecolindex

allows the next index following the **\threecolindex** declaration to be set in three columns.

The Springer declaration

allows the inclusion of explanatory text between the index heading and the actual list of references.

N.B. The command must be placed before the theindex environment.

Use the command

\setcounter{tocdepth}{number}

to alter the numerical depth of your table of contents.

Use the macro

\calctocindent

to recalculate the horizontal spacing for large section numbers in the table of contents set with the following variables:

\tocchpnum for thechapter number\tocsecnumsection number\tocsubsecnumsubsection number\tocsubsubsecnumsubsubsection\tocparanumparagraph number

Set the sizes of the variables concerned at the maximum numbering appearing in the current document.

In the preamble set e.g:

\settowidth{\tocsenum}{36.\enspace} \settowidth{\tocsecnum}{36.10\enspace} \settowidth{\tocsubsecnum}{99.88.77} \calctocindent

References

- [1] L. Lamport: *LATEX: A Document Preparation System* 2nd ed. (Addison-Wesley, Reading, Ma 1994)
- [2] M. Goossens, F. Mittelbach, A. Samarin: *The LATEX Companion* (Addison-Wesley, Reading, Ma 1994)
- [3] D. E. Knuth: *The T_EXbook* (Addison-Wesley, Reading, Ma 1986) revised to cover T_EX3 (1991)
- [4] TEX Users Group (TUG), http://www.tug.org
- [5] Deutschsprachige Anwendervereinigung TEX e.V. (DANTE), Heidelberg, Germany, http://www.dante.de
- [6] UK TEX Users' Group (UK-TuG), http://uk.tug.org