

Typesetting Articles for *Res Philosophica*^{*†}

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Abstract

This package provides a class for typesetting articles for the journal *Res Philosophica*, <http://www.resphilosophica.org>.

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1 Introduction

According to the statement at <http://www.resphilosophica.org/>, *Res Philosophica* is an international, quarterly journal of philosophy that publishes research in all areas of philosophy, historical and topical. Founded as *The Modern Schoolman* by Jesuit Scholastics in 1925, the journal is edited by members of the Philosophy Department at Saint Louis University and supported generously by the College of Arts and Sciences.

This package is intended for the authors and editors of the journal to typeset the articles in L^AT_EX. Note that the journal is typeset in *Linotype Sabon*, with some elements in MT Imprint Shadow. The users may buy the fonts and install their free L^AT_EX support [1, 2], or use the options `bodyfont=cm` and `rpfont=cm` to typeset the articles using Computer Modern. Of course, the line and page breaks in the latter case are different from those in the final version typeset with commercial fonts.

2 User Interface

2.1 Commercial Fonts

The package can be used with free Computer Modern fonts or with commercial fonts to mimick the journal typesetting. The installation of additional fonts is therefore fully optional.

Res Philosophica uses Linotype Sabon for the body text, Monotype Imprint Shadow for some titles and URW Garamond for mathematics. Sabon and MT Imprint Shadow are commercial fonts. URW Garamond is free, but due to license restrictions it is usually not included with T_EXLive, MikT_EX and other major distributives. If you bought Linotype Sabon, you need to install the package `lsabon` [1]. If you bought MT Imprint Shadow, you need to install the package `imprintshadow` [2]. To use URW Garamond, you need to download the `pfb` files from a CTAN mirror (<http://ctan.org/tex-archive/fonts/urw/garamond>), install them in the directory `fonts/type1/urw/garamond` under `$TEXMFLOCAL` and run `texhash`.

2.2 Invocation and Options

To use the class put in the preamble of your document

```
\documentclass[<options>]{resphilosophica}
```

The class `resphilosophica` internally loads `amsart`, and therefore all class options for `amsart` are technically valid. However, most of them are not especially meaningful for `resphilosophica`. There are several options specific for this class. They are described below. Note that the class uses key-value interface for some options, for example

```
\documentclass[bodyfont=sabon]{resphilosophica}
```

<i>option</i> bodyfont	The option bodyfont can have three values: sabon for Sabon/Garamond fonts, cm for Computer Modern and auto (default). The later option switches to the use of Sabon if the font metrics are present in your system, and to the use of Computer Modern otherwise.
<i>option</i> rpfont	The name of journal, <i>Res Philosophica</i> , is typeset with the special font. The option rpfont can have three values: imprintshadow for MT Imprint Shadow, cm for Computer Modern and auto (default). The later option switches to the use of MT Imprint Shadow if the font metrics are present in your system, and to the use of Computer Modern otherwise.
<i>option</i> manuscript	The option manuscript is intended to facilitate the communications between the editor and the author. It enables two things: <ol style="list-style-type: none"> 1. The numbering of lines in the manuscript is switched off in the normal mode, but is on in the manuscript mode. 2. The command <code>\EditorialComment</code> is no-op in normal mode, but produces marginal commentaries in the manuscript
<i>option</i> screen	The option screen is intended for the screen reading. When this option is selected, the links become highlighted.
<i>option</i> natbib	The preferred solution for bibliography is natbib package [3]. The option natbib=true (default) sets the package and the proper options, including bibliography style. The option natbib=false switches this behavior off, and the formatting of the bibliography becomes the full responsibility of the author. The package includes the BibTeX bibliography style resphilosophica.bst .

2.3 Topmatter

Topmatter is the part of the article with the informations about the authors, their affiliations, the publication data, etc.

There are two kinds of top matter commands: the ones used primarily for authors and the ones used primarily for editors. We describe them separately.

2.3.1 Commands for Authors

\title The command `\title`, as in **amsart** class, has two arguments: one optional, and one mandatory:

`\title[<ShortTitle>]{<FullTitle>}`

The mandatory argument is the full title of the article. The optional argument, if present, defines the shorter version of the title for running heads. If the optional argument is absent, the full title is used instead.

\author The interface for specifying the authors and their affiliations is close the the one of **amsart** [4] (and different from the standard L^AT_EX). For each author a separate command `\author` should be used, followed by `\address` and (optionally) `\curraddr`, `\email` and `\urladdr`.

\urladdr In some cases the authors list may be too long for the running head, even

\shortauthors

if the abbreviated forms are used for each author. In this case it is possible to change the running head by a *redefinition* of the command `\shortauthors`. This redefinition must be done after all `\author` commands, but before `\maketitle`:

```
\renewcommand{\shortauthors}{A.~Smith et al}
```

`\thanks` Like `amsart` (and unlike standard \LaTeX), `resphilosophica` allows `\thanks` only *outside* of commands `\title` and `\author`. The text of `\thanks` is typeset at the end of the paper as a footnote marked ‘Acknowledgements’. Note that the right vertical positioning of this footnote might require an additional run of \LaTeX .

`\copyrightnote` Normally each paper is copyrighted by the authors and by the journal. This is reflected in the footnote on the first page of the article. However, by arrangement with the editors, certain papers may have different copyright. The command `\copyrightnote{\copyright statement}`, if issued, changes the footnote to the corresponding text, for example:

```
\copyrightnote{\textcopyright~2012 by the authors. This paper may
be reproduced, in its entirety, for noncommercial purposes.}
```

Note that if you issue this command, you should explicitly include both the copyright sign and the year unless the paper does not have a copyright, for example:

```
\copyrightnote{This paper is in the public domain}
```

`\copyrightyear` Normally the copyright statement includes the year of copyright, which is assumed to be the publication year as specified by the `\publicationyear` command (see below). If this assumption is wrong, you may correct it, for example,

```
\copyrightyear{1998}
```

`abstract` The abstract of the paper must be put between `\begin{abstract}` and `\end{abstract}`. Unlike the situation in `amsart` class, abstract may be put *after* `\maketitle`.

`\maketitle` The macro `\maketitle` typesets the top matter. All top matter information should be specified before this command.

2.3.2 Commands for Editors

The commands described in this section should be used by the editors to insert the information about the published paper. They must be put before the `\maketitle` command.

`\volumenumber` The macros `\volumenumber`, `\issuenummer`, `\publicationyear`, `\publicationmonth`,
`\issuenummer` `\papernumber`, `\startpage`, `\endpage` set up the corresponding data for the pa-
`\publicationyear` per, for example:
`\publicationmonth` `\volumenumber{88}`
`\papernumber`
`\startpage`
`\endpage`

```

\issuenum{1--2}
\publicationyear{2012}
\publicationmonth{January and April}
\papernumber{2}
\startpage{1}
\endpage{39}

```

Note that if the argument of `\endpage` is empty, \LaTeX tries to calculate the last page number as best as it can.

`\doinumber` Normally you do not need to set the DOI of the paper: \TeX will construct the number using the paper data (including paper number in the current issue). However, you *may* override its decision using the command `\doinumber` which sets the DOI explicitly, for example, `\doinumber{\langle 10.11612/resphilosophica.2013.01.01 \rangle}`. You probably should not use this macro.

`\prevpaper` Instead of setting `\startpage`, one can use the the command `\prevpaper{\langle previous paper \rangle}`, with the argument being the location and file name of the previous paper in the journal, for example:

```
\prevpaper{../infinity/concept_of_infinity}
```

Note that the `.tex` suffix should *not* be used. The previous paper must be processed by `latex` prior to the current one. In this case `latex` will read the last page of the previous paper, and start the current one from the proper page number.

`\EditorialComment` The macro `\EditorialComment[\langle comments \rangle]` typesets the comments on the margins in the `manuscript` mode, for example,

```
Which is a well known fact.\EditorialComment{A citation is
needed}
```

2.4 Bibliography

As mentioned above, `resphilosophica` by default uses `natbib` [3]. You should use `natbib` commands like `\citet`, `\citep` etc.

Note that `\bibliographystyle` command should *not* be issued by the author: the package takes care of this. You just need to type

```
\bibliography{DATABASE, DATABASE...}
```

The bibliography style used for the articles is `resphilosophica.bst`. Compared to standard styles it has two additional fields:

doi: DOI number of the publication. Write there only the number: the style will automatically add `http://dx.doi.org` and make the reference clickable.

titlenote: the note that should be put after the title rather than at the end of the entry¹, for example, the information about translators, editors of critical editions, etc:

```
@book{Knuth94:TheTeXbook,
  address =      {Reading, MA},
  author =       {Knuth, Donald Ervin},
  titlenote =    {Illustrations by Duane Bibby},
  publisher =    {Addison-Wesley Publishing Company},
  series =       {Computers \& Typesetting A},
  title =        {The \TeX book},
  year =         {1994},
}
```

`\AddtoEndMatter` If you decide to forgo `natbib`, you can use `natbib=false` option. Then you should remember to put the bibliography *after* the end matter (authors' addresses etc) using the command `\AddtoEndMatter`:

```
\AddtoEndMatter{MY BIBLIOGRAPHY COMMANDS}
```

Acknowledgements

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¹This field was proposed by Maureen Shupsky for the *Annals of Mathematics* bibliography style.

3 Implementation

3.1 Options

We need `xkeyval` since some of our options may have values:

```
1 \RequirePackage{xkeyval}
```

`\ifRESP@fontauto` First, check whether the user have the body font explicitly configured:

```
2 \newif\ifRESP@fontauto
3 \RESP@fontautotru
```

`\ifRESP@rpfontauto` Same for *Res Philosophica* font

```
4 \newif\ifRESP@rpfontauto
5 \RESP@rpfontautotru
```

`\ifRESP@lsabon` Are we using linotype sabon?

```
6 \newif\ifRESP@lsabon
7 \RESP@lsabonfalse
```

`\ifRESP@mtshadow` Are we using MT Imprint Shadow?

```
8 \newif\ifRESP@mtshadow
9 \RESP@mtshadowfalse
```

`bodyfont` And the option to check the user input:

```
10 \define@choicekey*+{resphilosophica.cls}{bodyfont}[\val\nr]{auto,
11   sabon, lsabon, cm}[auto]{%
12   \ifcase\nr\relax
13     \RESP@fontautotru
14   \or
15     \RESP@fontautofalse
16     \RESP@lsabontrue
17   \or
18     \RESP@fontautofalse
19     \RESP@lsabontrue
20   \or
21     \RESP@fontautofalse
22     \RESP@lsabonfalse
23   \fi}{%
24   \PackageWarning{resphilosophica}{The option bodyfont must be auto,
25     sabon or cm. Using auto}\RESP@fontautotru}
```

`rpfont` And the option to check the user input:

```
26 \define@choicekey*+{resphilosophica.cls}{rpfont}[\val\nr]{auto,
27   imprint, imprintshadow, cm}[auto]{%
28   \ifcase\nr\relax
29     \RESP@rpfontautotru
30   \or
31     \RESP@rpfontautofalse
32     \RESP@mtshadowtrue
```

```

33 \or
34 \RESP@rpfontautofalse
35 \RESP@mtshadowtrue
36 \or
37 \RESP@rpfontautofalse
38 \RESP@mtshadowfalse
39 \fi}{%
40 \PackageWarning{resphilosophica}{The option rpfont must be auto,
41 imprintshadow or cm. Using auto}\RESP@rpfontautottrue}

```

natbib Checking natbib option:

```

42 \define@boolkey+{resphilosophica.cls}[RESP@]{natbib}[true]{}%
43 \PackageWarning{resphilosophica}{The option natbib must be
44 yes or no. Using yes}}
45 \RESP@natbibtrue

```

The size-changing options produce a warning:

```

46 \long\def\RESP@size@warning#1{%
47 \ClassWarning{RESPart}{Size-changing option #1 will not be
48 honored}}%
49 \DeclareOptionX{8pt}{\RESP@size@warning{\CurrentOption}}%
50 \DeclareOptionX{9pt}{\RESP@size@warning{\CurrentOption}}%
51 \DeclareOptionX{10pt}{\RESP@size@warning{\CurrentOption}}%
52 \DeclareOptionX{11pt}{\RESP@size@warning{\CurrentOption}}%
53 \DeclareOptionX{12pt}{\RESP@size@warning{\CurrentOption}}%

```

\ifRESP@manuscript Manuscript mode:

```

54 \newif\ifRESP@manuscript
55 \RESP@manuscriptfalse
56 \DeclareOptionX{manuscript}{\RESP@manuscripttrue}

```

\ifRESP@screen Screen mode:

```

57 \newif\ifRESP@screen
58 \RESP@screenfalse
59 \DeclareOptionX{screen}{\RESP@screenttrue}

```

All other options are passed to amsart:

```

60 \DeclareOptionX{*}{\PassOptionsToClass{\CurrentOption}{amsart}}

```

And executing options:

```

61 \ProcessOptionsX

```

3.2 Loading Classes and Packages

We use `amsart` since it has nice features for front matter:

```

62 \LoadClass[noamsfonts]{amsart}

```


Some packages

```
63 \RequirePackage{microtype, fancyhdr, xcolor, lastpage}
64 \RequirePackage[bottom,multiple]{footmisc}
65 \RequirePackage[hyperfootnotes=false]{hyperref}
66 \urlstyle{rm}
67 \ifRESP@manuscript\hypersetup{colorlinks,allcolors=blue}\else
68   \ifRESP@screen\hypersetup{colorlinks,allcolors=blue}\else
69     \hypersetup{hidelinks}\fi\fi
```

The font to use depends on the options. Note that L^AT_EX cannot reliably determine whether a binary file like SabonLTrom.pfb exists in the system, so we check for the .fd file instead (sigh):

```
70 \ifRESP@fontauto
71   \IfFileExists{t1lsb.fd}{\RESP@lsabontrue}{\RESP@lsabonfalse}\fi
```

If the user wants, we load Sabon and URW Garamond. Note that mathdesign defines sc to be fsc, so we need to redefine it for Sabon:

```
72 \ifRESP@lsabon
73   \RequirePackage[mdugm]{mathdesign}
74   \RequirePackage[rmdefault]{lsabon}
75   \renewcommand\scdefault{sc}
76 \fi
```

Checking the existence of miih font metrics:

```
77 \ifRESP@rpfontauto
78   \IfFileExists{t1miih.fd}{\RESP@mtshadowtrue}{\RESP@mtshadowfalse}\fi
```

\rpdefault This is the font for *Res Philosophica*:

```
79 \ifRESP@mtshadow
80   \def\rpdefault{miih}\else
81     \def\rpdefault{\rmdefault}\fi
```

\AddtoEndMatter A syntax sugar to add something after signature:

```
82 \def\AddtoEndMatter#1{\g@addto@macro\enddoc@text{#1}}
```

And loading natbib:

```
83 \ifRESP@natbib
84   \RequirePackage[round]{natbib}
85   \AtEndDocument{\bibliographystyle{resphilosophica}}
86   \let\RESP@bibliography=\bibliography
87   \def\bibliography#1{\AddtoEndMatter{\RESP@bibliography{#1}}}
88   \def\bibsection{\par\addpenalty\@secpenalty\addvspace{\bigskipamount}%
89     \noindent \Small References:\par\nobreak\vskip\medskipamount\@afterheading}
90   \def\bibfont{\Small}
91 \fi
```

3.3 Page Dimensions and Paragraphing

\pdfpaperwidth Paper:
\pdfpaperheight

```

92 \ifRESP@manuscript\else
93 \AtBeginDocument{\setlength{\pdfpagewidth}{432bp}%
94 \setlength{\pdfpageheight}{648bp}}
95 \fi

\textwidth The size of the type block:
\textheight 96 \setlength{\textwidth}{318pt}
97 \setlength{\textheight}{540pt}

\evensidemargin The margins:
\oddsidemargin 98 \setlength{\evensidemargin}{-18pt}
99 \setlength{\oddsidemargin}{\evensidemargin}

\topmargin Top margin
100 \setlength{\topmargin}{-48pt}

\listisep This is the space around lists. amsart defines it as \smallskipamount. We slightly
increase it:
101 \listisep\medskipamount

```

3.4 Headers

```

\headsep Separation between the header and the body
102 \setlength{\headsep}{14pt}

\headheight The height of the headers:
103 \setlength{\headheight}{12pt}

\headrulewidth We do not want decorative rules in the journal:
\footrulewidth 104 \renewcommand{\headrulewidth}{0pt}
105 \renewcommand{\footrulewidth}{0pt}

\footskip Separation between the footer and the body
106 \setlength{\footskip}{20pt}

\RESP@linecount This is the box displayed in the manuscript mode
107 \ifRESP@manuscript
108 \newsavebox{\RESP@linecount}
109 \savebox{\RESP@linecount}[4em][t]{\parbox[t]{4em}{%
110 \@tempcnta\@ne\relax
111 \loop{\color{red}\scriptsize\the\@tempcnta}\@tempcnta\@ne\relax
112 \advance\@tempcnta by \@ne\ifnum\@tempcnta<47\repeat}}
113 \fi

```

It is easy to set up headers with fancyhdr:

```

114 \pagestyle{fancy}
115 \fancyhead{}
116 \fancyfoot{}

```

```

117 \fancyhead[LE]{\footnotesize\thepage\qqquad\itshape\shortauthors}
118 \fancyhead[RO]{\footnotesize\textit{\shorttitle}\qqquad\thepage}
119 \ifRESP@manuscript
120   \fancyhead[LE]{\begin{picture}(0,0)%
121     \put(-26,-22){\usebox{\RESP@linecount}}}%
122   \end{picture}\footnotesize\thepage\qqquad\itshape\shortauthors}
123 \fancyhead[LO]{\begin{picture}(0,0)%
124   \put(-21,-22){\usebox{\RESP@linecount}}}%
125 \end{picture}}
126 \fancyfoot[C]{\scriptsize\color{red}Author's Proof}
127 \fi

```

The first page has the special headers. The style `firstpage` is invoked by `amsart`; here we just redefine it.

```

128 \fancypagestyle{firstpage}{%
129   \fancyhf{}%
130   \ifRESP@manuscript
131     \lhead{\begin{picture}(0,0)%
132       \put(-26,-20){\usebox{\RESP@linecount}}}%
133     \end{picture}}
134   \fi
135   \cfoot{\footnotesize{\fontfamily{\rpdefault}\selectfont Res Philosophica,}
136     \itshape Vol.~\currentvolume, No.~\currentissue,
137     \currentmonth~\currentyear, pp.~\start@page--\end@page
138     \ifx\@doinumber\@empty\else\\%
139     \doi{\@doinumber}\fi
140     \\
141     \@copyrightnote}}

```

3.5 Top Matter Macros

Most top matter macros are defined in `amsart`. Here we just add some new macros and redefine some.

The next macros mimic the functionality of `amsart \issueinfo` command. Note that `\issueinfo` still works.

<code>\volumenumber</code>	This sets the volume of the paper
	<pre> 142 \def\volumenumber#1{\def\currentvolume{#1}} 143 \volumenumber{00} </pre>
<code>\issuenumber</code>	This sets the issue of the paper:
	<pre> 144 \def\issuenumber#1{\def\currentissue{#1}} 145 \issuenumber{0--0} </pre>
<code>\publicationyear</code>	This sets the year of the paper
	<pre> 146 \def\publicationyear#1{\def\currentyear{#1}} 147 \publicationyear{2090} </pre>

`\publicationmonth` This sets the month of the paper

```

148 \def\publicationmonth#1{\def\currentmonth{#1}}
149 \publicationmonth{January--February}

```

`\papernumber` This is absent from the `\issueinfo`.

```

150 \def\papernumber#1{\def\currentpaper{#1}}
151 \papernumber{0000}
152 %
153 % \end{macro}
154 %
155 %
156 % \begin{macro}{\doinumber}
157 % \changes{v1.11}{2012/12/25}{Added default}
158 % DOI number for the article:
159 % \begin{macrocode}
160 \def\doinumber#1{\gdef@doinumber{#1}}
161 \doinumber{10.11612/resphil.\currentyear.\currentvolume.\currentissue.\currentpaper}

```

`\startpage` This defines the starting page of the paper. We have some nice features to set up roman page numbers for editorial stuff—probably not needed for this journal at this time...

```

162 \def\startpage#1{\pagenumbering{arabic}\setcounter{page}{#1}%
163 \def\start@page{#1}%
164 \ifnum\c@page<\z@ \pagenumbering{roman}\setcounter{page}{-#1}%
165 \def\start@page{\romannumeral#1}%
166 \fi}

```

`\endpage` This macro again has a twist in it: if the argument is not set, it calculates the last page number itself.

```

167 \def\endpage#1{\def\@tempa{#1}%
168 \ifx\@tempa\@empty\def\end@page{\pageref{LastPage}}%
169 \else\def\end@page{#1}\fi}

```

`\pagespan` This macro is different from the one provided by `amsart` because we want to have the option of automatic calculation of the last page number.

```

170 \def\pagespan#1#2{\startpage{#1}\endpage{#2}}
171 \pagespan{1}{}

```

`\articleentry` This is necessary for `\prevpaper` command. We read the TOC entry from the previous paper and increment it by 1. Note that we always start with on an odd page, since the additional check

```

172 \def\articleentry#1#2#3#4{\@tempcnta=#4\relax
173 \advance\@tempcnta by 1\relax
174 \ifodd\the\@tempcnta\else\advance\@tempcnta by 1\relax\fi
175 \startpage{\the\@tempcnta}}

```

`\prevpaper` This sets the previous paper location and reads the information from the previous paper

```

176 \def\prevpaper#1{\IfFileExists{#1.rpi}{%
177   \ClassInfo{resphilosophica}{%
178     Reading first page number from the file #1.rpi}%
179   \input{#1.rpi}%
180 }{\ClassWarning{resphilosophica}{Cannot find the file #1.rpi.
181   Did you run latex on the previous paper?}}}
```

```

abstract We slightly redefine abstract comparing to amsart conventions:
182 \renewenvironment{abstract}{%
183   \ifx\maketitle\relax
184     \ClassWarning{resphilosophica}{Abstract should precede
185       \protect\maketitle\space in AMS derived classes}%
186   \fi
187   \global\setbox\abstractbox=\vtop\bgroup%
188   \vglue1pc%
189   \list{}{\labelwidth\z@%
190     \leftmargin3pc \rightmargin\leftmargin%
191     \listparindent\normalparindent \itemindent\z@%
192     \parsep\z@ \@plus\p@%
193     \let\fullwidthdisplay\relax%
194   }%
195   \item[]\normalfont\normalsize\textbf{\abstractname:}\space
196 }{%
197   \endlist\egroup%
198   \ifx\@setabstract\relax\@setabstracta\fi%
199 }
```

```

\copyrightyear This is the copyright year in case it does not coincide with the publication year:
200 \def\copyrightyear#1{\def\@copyrightyear{#1}}
201 \copyrightyear{}
```

```

\RESP@bulletboxwidth This is the width of a box with a bullet for copyright note:
202 \newlength\RESP@bulletboxwidth
203 \settowidth\RESP@bulletboxwidth{\quad\textbullet\quad}
```

```

\copyrightnote This is the copyrightnote. The default has some trickery with the year and short
authors.
The disappearing bullet is based on the trick by Marcin Wolinński, who noted
that \cleaders are discardable (see [5]).
204 \def\copyrightnote#1{\def\@copyrightnote{#1}}
205 \copyrightnote{\textcopyright~%
206   \ifx\@empty\@copyrightyear\currentyear\else\@copyrightyear\fi~%
207   \shortauthors\cleaders\hbox{\quad\textbullet\quad}\hskip\RESP@bulletboxwidth
208   \textcopyright~%
209   \ifx\@empty\@copyrightyear\currentyear\else\@copyrightyear\fi~%
210   {\normalfont\fontfamily{rpddefault}\selectfont Res~Philosophica}}
```

```

\author The base class puts into \addresses the strange line \author{}. We correct this:
211 \renewcommand{\author}[2] [] {%
```

```

212 \ifx\@empty\addresses
213   \gdef\addresses{\author{#2}}%
214 \else
215   \g@addto@macro\addresses{\author{#2}}%
216 \fi
217 \ifx\@empty\authors
218   \gdef\authors{#2}%
219 \else
220   \g@addto@macro\authors{\and#2}%
221 \fi
222 \ifnotempty{#1}{%
223   \ifx\@empty\shortauthors
224     \gdef\shortauthors{#1}%
225   \else
226     \g@addto@macro\shortauthors{\and#1}%
227   \fi
228 }%
229 }
230 \edef\author{\@nx\@dblarg
231   \@xp\@nx\csname\string\author\endcsname}

```

3.6 Typesetting Top Matter

`\@settitle` We do not uppercase title. Also, we use this occasion to set PDF information:

```

232 \def\@settitle{\begin{center}%
233   \baselineskip20\p@\relax
234   \LARGE\scshape
235   \@title
236   \hypersetup{pdftitle=\@title}%
237   \end{center}%
238 }

```

`\@setauthors` Now we typeset authors according to our specs. Again, we use this occasion to set some PDF information:

```

239 \def\@setauthors{%
240   \ifx\authors\@empty\relax\else
241     \begingroup
242     \def\thanks{\protect\thanks@warning}%
243     \trivlist
244     \centering\footnotesize \@topsep30\p@\relax
245     \advance\@topsep by -\baselineskip
246     \item\relax
247     \def\@and{{and}}
248     \author@andify\authors
249     \hypersetup{pdfauthor=\authors}%
250     \def\{\{\protect\linebreak\}%
251     \large\normalfont\authors%
252     \endtrivlist
253   \endgroup

```

```

254     \fi}

\maketitle We redefine \maketitle—mostly to prevent uppercasing of shorttitle and to write
down the journal information:
255 \def\maketitle{\par
256   \@topnum\z@ % this prevents figures from falling at the top of page 1
257   \@setcopyright
258   \thispagestyle{firstpage}% this sets first page specifications
259   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
260   \else \andify\shortauthors
261   \fi
262   \@maketitle@hook
263   \RESP@write@paper@info
264   \begingroup
265   \@maketitle
266   \toks@{\xp{\shortauthors}\@temptokena\xp{\shorttitle}}%
267   \toks4{\def\{ \ignorespaces}}% defend against questionable usage
268   \edef\@tempa{%
269     \@nx\markboth{\the\toks4
270       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
271   \@tempa
272   \endgroup
273   \c@footnote\z@
274   \@cleartopmattertags
275 }

\@maketitle We delete top space introduced by amsart:
276 \def\@maketitle{%
277   \normalfont\normalsize
278   \@adminfootnotes
279   \@mkboth{\@nx\shortauthors}{\@nx\shorttitle}%
280   \@settitle
281   \ifx\@empty\authors \else \@setauthors \fi
282   \ifx\@empty\@dedicatory
283   \else
284     \baselineskip18p@
285     \vtop{\centering{\footnotesize\itshape\@dedicatory\@par}}%
286     \global\dimen@i\prevdepth\prevdepth\dimen@i
287   \fi
288   \@setabstract
289   \normalsize
290   \if@titlepage
291     \newpage
292   \else
293     \dimen@34p@ \advance\dimen@-\baselineskip
294     \vskip\dimen@\relax
295   \fi
296 } % end \@maketitle

\@mainrpi The stream for the rpi file:

```

```

297 \newwrite\@mainrpi

\RESP@write@paper@info This writes the information about the paper into the file jobname.rpi. Note that
                        hyperref makes our life a little bit more complex
298 \def\RESP@write@paper@info{%
299   \bgroup
300   \if@filesw
301     \openout\@mainrpi\jobname.rpi%
302     \write\@mainrpi{\relax}%
303     \ifx\r@LastPage\undefined
304       \edef\@tempa{\start@page}%
305     \else
306       \def\@tempb##1##2##3##4##5{##2}%
307       \edef\@tempa{\expandafter\@tempb\r@LastPage}%
308     \fi
309     \def\and{\string\and\space}%
310     \protected@write\@mainrpi{%
311       {\string\articleentry{\authors}{\@title}{\start@page}{\@tempa}}%
312     \protected@write\@mainrpi{%
313       {\@percentchar authors=\authors}%
314     \protected@write\@mainrpi{%
315       {\@percentchar title=\@title}%
316     \protected@write\@mainrpi{%
317       {\@percentchar year=\currentyear}%
318     \protected@write\@mainrpi{%
319       {\@percentchar volume=\currentvolume}%
320     \protected@write\@mainrpi{%
321       {\@percentchar issue=\currentissue}%
322     \protected@write\@mainrpi{%
323       {\@percentchar paper=\currentpaper}%
324     \protected@write\@mainrpi{%
325       {\@percentchar startpage=\start@page}%
326     \protected@write\@mainrpi{%
327       {\@percentchar endpage=\@tempa}%
328     \protected@write\@mainrpi{%
329       {\@percentchar doi=\@doinumber}%
330     \closeout\@mainrpi
331     \fi
332 \egroup}

\@adminfootnotes We just define this to noop:
333 \def\@adminfootnotes{}

\@cleartopmattertags We typeset thankses at the end of the paper so we do not clear them:
334 \def\@cleartopmattertags{%
335   \def\do##1{\let##1\relax}%
336   \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
337   \do\author \do\@xauthor \do\address \do\@xaddress

```



```

338 \do\contrib \do\contribs \do\xcontribs \do\tocontribs
339 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
340 \do\commby \do\@commby
341 \do\dedicatory \do\@dedicatory \do\thanks
342 \do\keywords \do\@keywords \do\subjclass \do\@subjclass

```

`\sf@size` It seems there is a bug in mdugm when calculating `\sf@size`. Here we work around it:

```

343 \def\sf@size{7pt}%
344 }

```

3.7 Typesetting End Matter

End matter is typeset at the end of the paper.

`\if@enddoc` Check whether we are in the end matter

```

345 \newif\if@enddoc
346 \@enddocfalse

```

`\enddoc@text` We put thankses into end matter. Also, we redefine bibliography back to the original definition in case someone writes `\AddtoEndMatter{\bibliography{}}`

```

347 \def\enddoc@text{%
348   \@enddoctrue\def\bibliography{\RESP@bibliography}%
349   \ifx\@empty\thankses\else
350     \bgroup
351     \let\@makefnmark\relax
352     \let\@thefnmark\relax

```

Check, whether we are at the same page as the last footnote; if yes, add medskip.

```

353   \ifx\lastfootnote@page\@undefined\else
354     \@tempcnta=\lastfootnote@page\relax
355     \ifnum\c@page=\@tempcnta\relax
356       \insert\footins{\medskip}%
357     \fi
358   \fi
359   \@footnotetext{%
360     \def\par{\let\par\@par}\textbf{Acknowledgements\quad} \setthanks}%
361   \egroup
362   \fi
363   \ifx\@empty\@translators \else\settranslators\fi
364   \ifx\@empty\addresses \else\setaddresses\fi}

```

`\ifRESP@firstingroup` A group of authors is separated by a skip from another group. This macro checks whether this is the first one

```

365 \newif\ifRESP@firstingroup

```

`\emailaddrname` The name for e-mail address:

```

366 \def\emailaddrname{E-mail}

```

`\@setaddresses` Unlike `aomart`, we want to preserve author's name in the address block. Also, we want to keep linebreaks and to have clickable e-mail and URL.

We want to skip between the author groups (several authors with the same affiliation), so we check whether the previous line contains another author:

```

367 \def\@setaddresses{\par
368   \nobreak \begingroup\flushright\clubpenalty\@MM\interlinepenalty\@MM
369   \widowpenalty\@MM
370   \RESP@firstingrouptrue
371 \Small
372   \def\author##1{\nobreak\ifRESP@firstingroup\par
373     \addvspace\bigskipamount\penalty-1000\fi
374     \RESP@firstingroupfalse##1\par\nobreak}%
375   \parindent\z@
376   \def\address##1##2{\RESP@firstingrouptrue\begingroup
377     \par\nobreak
378     \@ifnotempty{##1}{(\ignorespaces##1\unskip) }%
379     {\ignorespaces##2}\par\endgroup}%
380   \def\curraddr##1##2{\RESP@firstingrouptrue\begingroup
381     \@ifnotempty{##2}{\nobreak\indent\curraddrname
382       \@ifnotempty{##1}{, \ignorespaces##1\unskip}\hskip0.2em:\space
383       ##2\par}\endgroup}%
384   \def\email##1##2{\RESP@firstingrouptrue\begingroup
385     \@ifnotempty{##2}{\nobreak\indent\emailaddrname
386       \@ifnotempty{##1}{, \ignorespaces##1\unskip}\hskip0.2em:\space
387       \href{mailto:##2}{\nolinkurl{##2}}\par}\endgroup}%
388   \def\urladdr##1##2{\RESP@firstingrouptrue\begingroup
389     \@ifnotempty{##2}{\nobreak\indent
390       \@ifnotempty{##1}{, \ignorespaces##1\unskip}%
391       \url{##2}\par}\endgroup}%
392   \addresses
393   \endgroup
394 }
```

At the end we eject the last page

```

395 \AtEndDocument{\cleardoublepage}
```

3.8 Sectioning

`\@seccntformat` We do not want our numbers to be upright and medium series, as `amsart` wants:

```

396 \def\@seccntformat#1{%
397   \csname the#1\endcsname\enspace
398 }
```

`\section` We want our sections to be large and bold:

```

399 \renewcommand\section{\@startsection {section}{1}{\z@}%
400                                     {-3.5ex \@plus -1ex \@minus -.2ex}%
401                                     {2.3ex \@plus .2ex}%
402                                     {\normalfont\large\bfseries}}
```

`\subsection` Subsections are bold

```

403 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
404                                     {-3.25ex\@plus -1ex \@minus -.2ex}%
405                                     {1.5ex \@plus .2ex}%
406                                     {\normalfont\normalsize\bfseries}}

```

`\subsubsection` Subsubsections are normalsize and italic

```

407 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
408                                     {-3.25ex\@plus -1ex \@minus -.2ex}%
409                                     {1.5ex \@plus .2ex}%
410                                     {\normalfont\normalsize\itshape}}

```

`\paragraph` Paragraphs:

```

411 \renewcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
412                                     {3.25ex \@plus 1ex \@minus .2ex}%
413                                     {-1em}%
414                                     {\normalfont\normalsize\bfseries}}

```

`\subparagraph` Paragraphs:

```

415 \renewcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
416                                     {3.25ex \@plus 1ex \@minus .2ex}%
417                                     {-1em}%
418                                     {\normalfont\normalsize\bfseries}}

```

3.9 Additional Commands

`\@mparswitch` We always put marginpars on the right since the line box is on the left

```

419 \@mparswitchfalse

```

`\EditorialComment` This macro is noop in normal mode, but is a tiny marginpar in the manuscript mode

```

420 \def\EditorialComment#1{\ifRESP@manuscript\bgroup
421   \marginparwidth=200pt\marginpar{\color{red}%
422   \raggedright#1}\egroup\fi}

```

`\doi` Typesetting doi...

```

423 \def\doi#1{\url{http://dx.doi.org/#1}}

```

`\@makefntext` Unlike amsart, we do not indent footnotes:

```

424 \def\@makefntext{\noindent\@makefnmark
425   \if@enddoc\else
426     \immediate\write\@mainaux%
427     {\string\xdef\string\lastfootnote@page{\the\c@page}}%
428   \fi}
429 \long\def\@footnotetext#1{%
430   \insert\footins{%
431     \normalfont\footnotesize
432     \interlinepenalty\interfootnotelinepenalty

```

```

433 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
434 \floatingpenalty\@MM \hsize\columnwidth
435 \@parboxrestore \parindent\normalparindent \sloppy
436 \protected@edef\@currentlabel{%
437   \csname p@footnote\endcsname\@thefnmark}%
438 \@makefnmark{\@currentlabel}%
439 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}

```

3.10 The End

Philosophers love footnotes, since `\raggedbottom`

```

440 \raggedbottom\normalsize\normalfont
441 \end{class}

```

References

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Change History

v1.1		v1.3	
\@maketitle: Redefined macro	15	\@setaddresses: Added penalties	18
\@mparswitch: Changed default	19	\@setauthors: Deleted ifpdf	14
\@setauthors: Changed font	14	\@settitle: Deleted ifpdf	14
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\ifRESP@mtshadow: Added macro	7	v1.4	
\ifRESP@rpfontauto: Added		\@makefntext: Redefined	19
macro	7	General: Added footmisc package	
rpfont: Added option	7	with ‘bottom’ option	9
\RESP@write@paper@info: Added		Added screen option	1
protection for \	16	Changed bibsection font	9
\rpdefault: Added macro	9	Changed color of “Author’s	
\section: Moved to LaTeX de-		proof’ mark	10
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\subsection: Moved to LaTeX de-		color	19
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v1.11		in the manuscript mode	9
General: Bibliography changes	1	\RESP@linecount: Changed color	10
\papernumber: Added macro	12	\subparagraph: Moved to LaTeX	
\RESP@write@paper@info: Added		default	19
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\RESP@write@paper@info: Used		v1.7	
\protected@write	16	General: Added new bibliography	
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v1.8	\@setaddresses: Added penalties	18
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phy 17	macro	13

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