

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` `\doinumber`, `\startpage`, `\endpage` set up the corresponding data for the paper,
`\publicationyear` for example:
`\publicationmonth` `\volumenumber{88}`
`\doinumber`
`\startpage`
`\endpage`

```

\issuenum{1--2}
\publicationyear{2012}
\publicationmonth{January and April}
\doinum{100.234/RP-2-3-12}
\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.

`\prevpaper` Instead of setting `\startpage`, one can use the the command `\prevpaper{<previous paper>}`, 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[<comments>]` 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,
```

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

```

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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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@rpfontautotruer}

```

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@screentruer}

```

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}\\
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}

```

`\doinumber` DOI number for the article:

```

150 \def\doinumber#1{\gdef\@doinumber{#1}}
151 \doinumber{}

```

`\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...

```

152 \def\startpage#1{\pagenumbering{arabic}\setcounter{page}{#1}%
153   \def\start@page{#1}%
154   \ifnum\c@page<\z@ \pagenumbering{roman}\setcounter{page}{-#1}%
155     \def\start@page{\romannumeral#1}%
156   \fi}

```

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

```

157 \def\endpage#1{\def\@tempa{#1}%
158   \ifx\@tempa\@empty\def\end@page{\pageref{LastPage}}%
159   \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.

```

160 \def\pagespan#1#2{\startpage{#1}\endpage{#2}}
161 \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

```

162 \def\articleentry#1#2#3#4{\@tempcnta=#4\relax
163   \advance\@tempcnta by 1\relax
164   \ifodd\the\@tempcnta\else\advance\@tempcnta by 1\relax\fi
165   \startpage{\the\@tempcnta}}

```

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

```

166 \def\prevpaper#1{\IfFileExists{#1.rpi}{%
167   \ClassInfo{resphilosophica}{%
168     Reading first page number from the file #1.rpi}%
169   \input{#1.rpi}%
170 }{\ClassWarning{resphilosophica}{Cannot find the file #1.rpi.
171   Did you run latex on the previous paper?}}}

```

`abstract` We slightly redefine abstract comparing to `amsart` conventions:

```

172 \renewenvironment{abstract}{%
173   \ifx\maketitle\relax

```

```

174 \ClassWarning{resphilosophica}{Abstract should precede
175 \protect\maketitle\space in AMS derived classes}%
176 \fi
177 \global\setbox\abstractbox=\vtop\bgroup%
178 \vglue1pc%
179 \list{}\{\labelwidth\z@%
180 \leftmargin3pc \rightmargin\leftmargin%
181 \listparindent\normalparindent \itemindent\z@%
182 \parsep\z@ \@plus\p@%
183 \let\fullwidthdisplay\relax%
184 }%
185 \item[]\normalfont\normalsize\textbf{\abstractname:}\space
186 }{%
187 \endlist\egroup%
188 \ifx\@setabstract\relax\@setabstracta\fi%
189 }

```

`\copyrightyear` This is the copyright year in case it does not coincide with the publication year:

```

190 \def\copyrightyear#1{\def\@copyrightyear{#1}}
191 \copyrightyear{}

```

`\RESP@bulletboxwidth` This is the width of a box with a bullet for copyright note:

```

192 \newlength\RESP@bulletboxwidth
193 \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 Woliniński, who noted that `\cleaders` are discardable (see [5]).

```

194 \def\copyrightnote#1{\def\@copyrightnote{#1}}
195 \copyrightnote{\textcopyright~%
196 \ifx\@empty\@copyrightyear\currentyear\else\@copyrightyear\fi~%
197 \shortauthors\cleaders\hbox{\quad\textbullet\quad}\hskip\RESP@bulletboxwidth
198 \textcopyright~%
199 \ifx\@empty\@copyrightyear\currentyear\else\@copyrightyear\fi~%
200 {\normalfont\fontfamily{\rpdefault}\selectfont Res~Philosophica}}

```

`\author` The base class puts into `\addresses` the strange line `\author{}`. We correct this:

```

201 \renewcommand{\author}[2][]{%
202 \ifx\@empty\addresses
203 \gdef\addresses{\author{#2}}%
204 \else
205 \g@addto@macro\addresses{\author{#2}}%
206 \fi
207 \ifx\@empty\authors
208 \gdef\authors{#2}%
209 \else
210 \g@addto@macro\authors{\and#2}%
211 \fi

```

```

212 \@ifnotempty{#1}{%
213   \ifx\@empty\shortauthors
214     \gdef\shortauthors{#1}%
215   \else
216     \g@addto@macro\shortauthors{\and#1}%
217   \fi
218 }%
219 }
220 \edef\author{\@nx\@dblarg
221   \@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:

```

222 \def\@settitle{\begin{center}%
223   \baselineskip20\p@\relax
224   \LARGE\scshape
225   \@title
226   \hypersetup{pdftitle=\@title}%
227   \end{center}%
228 }

```

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

```

229 \def\@setauthors{%
230   \ifx\authors\@empty\relax\else
231     \begingroup
232     \def\thanks{\protect\thanks@warning}%
233     \trivlist
234     \centering\footnotesize \@topsep30\p@\relax
235     \advance\@topsep by -\baselineskip
236     \item\relax
237     \def\@and{{and}}
238     \author@andify\authors
239     \hypersetup{pdfauthor=\authors}%
240     \def\{\{\protect\linebreak\}%
241     \large\normalfont\authors%
242     \endtrivlist
243     \endgroup
244   \fi}

```

`\maketitle` We redefine `\maketitle`—mostly to prevent uppercasing of shorttitle and to write down the journal information:

```

245 \def\maketitle{\par
246   \@topnum\z@ % this prevents figures from falling at the top of page 1
247   \@setcopyright
248   \thispagestyle{firstpage}% this sets first page specifications
249   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
250   \else \andify\shortauthors

```

```

251 \fi
252 \@maketitle@hook
253 \RESP@write@paper@info
254 \begingroup
255 \@maketitle
256 \toks@{\xp{\shortauthors}\@temptokena\xp{\shorttitle}}%
257 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
258 \edef\@tempa{%
259   \nx\markboth{\the\toks4
260     \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
261 \@tempa
262 \endgroup
263 \c@footnote\z@
264 \cleartopmattertags
265 }

```

\@maketitle We delete top space introduced by amsart:

```

266 \def\@maketitle{%
267   \normalfont\normalsize
268   \@adminfootnotes
269   \mkboth{\nx\shortauthors}\{\nx\shorttitle}}%
270   \@settitle
271   \ifx\@empty\authors \else \@setauthors \fi
272   \ifx\@empty\@dedicatory
273   \else
274     \baselineskip18p@
275     \vtop{\centering{\footnotesize\itshape\@dedicatory\@par}}%
276     \global\dimen@i\prevdepth\prevdepth\dimen@i
277   \fi
278   \@setabstract
279   \normalsize
280   \if@titlepage
281     \newpage
282   \else
283     \dimen@34p@ \advance\dimen@-\baselineskip
284     \vskip\dimen@\relax
285   \fi
286 } % end \@maketitle

```

\@mainrpi The stream for the rpi file:

```

287 \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

```

288 \def\RESP@write@paper@info{%
289   \bgroup
290   \if@filesw
291     \openout\@mainrpi\jobname.rpi%
292     \write\@mainrpi{\relax}%

```

```

293 \ifx\r@LastPage\@undefined
294 \edef\@tempa{\start@page}%
295 \else
296 \def\@tempb##1##2##3##4##5{##2}%
297 \edef\@tempa{\expandafter\@tempb\r@LastPage}%
298 \fi
299 \def\and{\string\and\space}%
300 \protected@write\@mainrpi{%
301 {\string\articleentry{\authors}{\@title}{\start@page}{\@tempa}}}%
302 \closeout\@mainrpi
303 \fi
304 \egroup}

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

\@cleartopmattertags We typeset thankses at the end of the paper so we do not clear them:
306 \def\@cleartopmattertags{%
307 \def\do##1{\let##1\relax}%
308 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
309 \do\author \do\@xauthor \do\address \do\@xaddress
310 \do\contrib \do\@contribs \do\@xcontribs \do\@toccontribs
311 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
312 \do\commby \do\@commby
313 \do\dedicatory \do\@dedicatory \do\thanks
314 \do\keywords \do\@keywords \do\subjclass \do\@subjclass

\sfs@size It seems there is a bug in mdugm when calculating \sfs@size. Here we work around
it:
315 \def\sfs@size{7pt}%

316 }



### 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



```

317 \newif\if@enddoc
318 \@enddocfalse

\enddoc@text We put thankses into end matter. Also, we redefine bibliography back to the
original definition in case someone writes \AddtoEndMatter{\bibliography{}}
319 \def\enddoc@text{%
320 \@enddoctrue\def\bibliography{\RESP@bibliography}%
321 \ifx\@empty\thankses\else
322 \bgroup
323 \let\@makefnmark\relax
324 \let\@thefnmark\relax

```


```


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

```

325 \ifx\lastfootnote@page\@undefined\else
326 \tempcnta=\lastfootnote@page\relax
327 \ifnum\c@page=\tempcnta\relax
328 \insert\footins{\medskip}%
329 \fi
330 \fi
331 \@footnotetext{%
332 \def\par{\let\par\@par}\textbf{Acknowledgements\quad} \setthanks}%
333 \egroup
334 \fi
335 \ifx\@empty\@translators \else\@settranslators\fi
336 \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

```
337 \newif\ifRESP@firstingroup
```

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

```
338 \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:

```

339 \def\@setaddresses{\par
340 \nobreak \begingroup\flushright\clubpenalty\@MM\interlinepenalty\@MM
341 \widowpenalty\@MM
342 \RESP@firstingroupttrue
343 \Small
344 \def\author##1{\nobreak\ifRESP@firstingroup\par
345 \addvspace\bigskipamount\penalty-1000\fi
346 \RESP@firstingrouptfalse##1\par\nobreak}%
347 \parindent\z@
348 \def\address##1##2{\RESP@firstingroupttrue\begingroup
349 \par\nobreak
350 \@ifnotempty{##1}{(\ignorespaces##1\unskip) }%
351 {\ignorespaces##2}\par\endgroup}%
352 \def\curraddr##1##2{\RESP@firstingroupttrue\begingroup
353 \@ifnotempty{##2}{\nobreak\indent\curraddrname
354 \@ifnotempty{##1}{, \ignorespaces##1\unskip}\hskip0.2em:\space
355 ##2\par}\endgroup}%
356 \def\email##1##2{\RESP@firstingroupttrue\begingroup
357 \@ifnotempty{##2}{\nobreak\indent\emailaddrname
358 \@ifnotempty{##1}{, \ignorespaces##1\unskip}\hskip0.2em:\space
359 \href{mailto:##2}{\nolinkurl{##2}}\par}\endgroup}%
360 \def\urladdr##1##2{\RESP@firstingroupttrue\begingroup
361 \@ifnotempty{##2}{\nobreak\indent

```

```

362     \ifnotempty{##1}{, \ignorespaces##1\unskip}%
363     \url{##2}\par}\endgroup}%
364 \addresses
365 \endgroup
366 }

```

At the end we eject the last page

```

367 \AtEndDocument{\cleardoublepage}

```

3.8 Sectioning

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

```

368 \def\@seccntformat#1{%
369   \csname the#1\endcsname\enspace
370 }

```

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

```

371 \renewcommand\section{\@startsection {section}{1}{\z@}%
372                                     {-3.5ex \@plus -1ex \@minus -.2ex}%
373                                     {2.3ex \@plus .2ex}%
374                                     {\normalfont\large\bfseries}}

```

`\subsection` Subsections are bold

```

375 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
376                                     {-3.25ex \@plus -1ex \@minus -.2ex}%
377                                     {1.5ex \@plus .2ex}%
378                                     {\normalfont\normalsize\bfseries}}

```

`\subsubsection` Subsubsections are normalsize and italic

```

379 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
380                                     {-3.25ex \@plus -1ex \@minus -.2ex}%
381                                     {1.5ex \@plus .2ex}%
382                                     {\normalfont\normalsize\itshape}}

```

`\paragraph` Paragraphs:

```

383 \renewcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
384                                     {3.25ex \@plus 1ex \@minus .2ex}%
385                                     {-1em}%
386                                     {\normalfont\normalsize\bfseries}}

```

`\subparagraph` Paragraphs:

```

387 \renewcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
388                                     {3.25ex \@plus 1ex \@minus .2ex}%
389                                     {-1em}%
390                                     {\normalfont\normalsize\bfseries}}

```

3.9 Additional Commands

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

`\EditorialComment` This macro is noop in normal mode, but is a tiny marginpar in the manuscript mode
392 `\def\EditorialComment#1{\ifRESP@manuscript\bgroup`
393 `\marginparwidth=200pt\marginpar{\color{red}%`
394 `\raggedright#1}\egroup\fi}`

`\doi` Typesetting doi...
395 `\def\doi#1{\url{http://dx.doi.org/#1}}`

`\@makefntext` Unlike `amsart`, we do not indent footnotes:
396 `\def\@makefntext{\noindent\@makefnmark`
397 `\if@enddoc\else`
398 `\immediate\write\@mainaux%`
399 `{\string\xdef\string\lastfootnote@page{\the\c@page}}%`
400 `\fi}`
401 `\long\def\@footnotetext#1{%`
402 `\insert\footins{%`
403 `\normalfont\footnotesize`
404 `\interlinepenalty\interfootnotelinepenalty`
405 `\splittopskip\footnotesep \splitmaxdepth \dp\strutbox`
406 `\floatingpenalty\@MM \hsize\columnwidth`
407 `\@parboxrestore \parindent\normalparindent \sloppy`
408 `\protected@edef\@currentlabel{%`
409 `\csname p@footnote\endcsname\@thefnmark}%`
410 `\@makefntext{%`
411 `\rule\z@{\footnotesep\ignorespaces#1\unskip\strut\par}}}`

3.10 The End

Philosophers love footnotes, since `\raggedbottom`
412 `\raggedbottom\normalsize\normalfont`
413 `\</class>`

References

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Change History

v1.1		v1.4	
\@maketitle: Redefined macro	15	\@makefntext: Redefined	19
\@mparswitch: Changed default	19	General: Added footmisc package	
\@setauthors: Changed font	14	with ‘bottom’ option	9
General: Added DOI number	1	Added screen option	1
Added MT Shadow Imprint code	1	Changed bibsection font	9
\doi: Added macro	19	Changed color of “Author’s	
\doinumber: Added macro	12	proof’ mark	10
\EditorialComment: Added macro	19	\EditorialComment: Changed	
\ifRESP@mtshadow: Added macro	7	color	19
\ifRESP@rpfontauto: Added		Changed font	19
macro	7	\ifRESP@screen: Added option	8
rpfont: Added option	7	\paragraph: Moved to LaTeX de-	
\RESP@write@paper@info: Added		fault	18
protection for \\	15	\pdfpaperheight: Changed paper	
\rpdefault: Added macro	9	in the manuscript mode	9
\section: Moved to LaTeX de-		\RESP@linecount: Changed color	10
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\subsection: Moved to LaTeX de-		default	18
faults	18	v1.5	
\subsubsection: Moved to LaTeX		\@makefntext: Added writing the	
defaults	18	current footnote page to the aux	
v1.2		file	19
\@adminfootnotes: Redefined	16	General: Changed color	10
\@cleartopmattertags: Redefined	16	Color change for links	1
\@setaddresses: Changed font	17	Hyperfootnotes are incompatible	
\@setauthors: Changed font	14	with hyperref	9
General: Changed font for bibliog-		\EditorialComment: Changed	
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\RESP@write@paper@info: Used		v1.7	
\protected@write	15	General: Added new bibliography	
\section: Changed font	18	fields	1
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\subsubsection: Changed font	18	\doi: Changed formatting	19
v1.3		\footskip: Decreased to fit doi	
\@setaddresses: Added penalties	17	number	10
\@setauthors: Deleted ifpdf	14	v1.8	
\@settitle: Deleted ifpdf	14	General: Added blank last page if	
General: Added penalties	9	the last page is odd	1
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\pdfpaperheight: Deleted ifpdf	9	\sf@size: Added definition	16

v1.9		appear at break	13
\@setaddresses:	Added penalties	17	\RESP@bulletboxwidth: Added
\copyrightnote:	Made bullet dis-		macro 13

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