

# Typesetting Articles for *Res Philosophica*<sup>\*†</sup>

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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<sup>A</sup>T<sub>E</sub>X. 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<sup>A</sup>T<sub>E</sub>X 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<sub>E</sub>XLive, MikT<sub>E</sub>X 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> <b>bodyfont</b>	The option <b>bodyfont</b> can have three values: <b>sabon</b> for Sabon/Garamond fonts, <b>cm</b> for Computer Modern and <b>auto</b> (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> <b>rpfont</b>	The name of journal, <i>Res Philosophica</i> , is typeset with the special font. The option <b>rpfont</b> can have three values: <b>imprintshadow</b> for MT Imprint Shadow, <b>cm</b> for Computer Modern and <b>auto</b> (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> <b>manuscript</b>	The option <b>manuscript</b> is intended to facilitate the communications between the editor and the author. It enables two things: <ol style="list-style-type: none"> <li>1. The numbering of lines in the manuscript is switched off in the normal mode, but is on in the manuscript mode.</li> <li>2. The command <code>\EditorialComment</code> is no-op in normal mode, but produces marginal commentaries in the manuscript</li> </ol>
<i>option</i> <b>preprint</b>	The option <b>preprint</b> is for the final version of the manuscript. In this mode there are no editorial comments, but the numbering of lines is preserved
<i>option</i> <b>screen</b>	The option <b>screen</b> is intended for the screen reading. When this option is selected, the links become highlighted.
<i>option</i> <b>forthcoming</b>	The option <b>forthcoming</b> is like <b>screen</b> , but it is used when there is no information about the volume and or dates for publication.
<i>option</i> <b>natbib</b>	The preferred solution for bibliography is <b>natbib</b> package [3]. The option <b>natbib=true</b> (default) sets the package and the proper options, including bibliography style. The option <b>natbib=false</b> switches this behavior off, and the formatting of the bibliography becomes the full responsibility of the author. The package includes the BibTeX bibliography style <b>resphilosophica.bst</b> .

## 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[\langle ShortTitle \rangle]{\langle FullTitle \rangle}`

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  
**\email**  
**\address**  
**\curraddr**  
**\urladdr**

one of `amsart` [4] (and different from the standard  $\text{\LaTeX}$ ). For each author a separate command `\author` should be used, followed by `\address` and (optionally) `\curraddr`, `\email` and `\urladdr`.

`\shortauthors` In some cases the authors list may be too long for the running head, even 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  $\text{\LaTeX}$ ), `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  $\text{\LaTeX}$ .

`\titlenote` The `\titlenote{<note>}` command creates a specila footnote for the title. This command should be issued *outside* the `\title` command.

`\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.

<code>\volumenumber</code>	The macros <code>\volumenumber</code> , <code>\issuenum</code> , <code>\publicationyear</code> , <code>\publicationmonth</code> ,
<code>\issuenum</code>	<code>\papernumber</code> , <code>\startpage</code> , <code>\endpage</code> set up the corresponding data for the pa-
<code>\publicationyear</code>	per, for example:
<code>\publicationmonth</code>	<code>\volumenumber{88}</code>
<code>\papernumber</code>	<code>\issuenum{1--2}</code>
<code>\startpage</code>	<code>\publicationyear{2012}</code>
<code>\endpage</code>	<code>\publicationmonth{January and April}</code>
	<code>\papernumber{2}</code>
	<code>\startpage{1}</code>
	<code>\endpage{39}</code>

Note that if the argument of `\endpage` is empty, L<sup>A</sup>T<sub>E</sub>X tries to calculate the last page number as best as it can.

<code>\doinumber</code>	Normally you do not need to set the DOI of the paper: T <sub>E</sub> X will construct the number using the paper data (including paper number in the current issue). However, you <i>may</i> override its decision using the command <code>\doinumber</code> which sets the DOI explicitly, for example, <code>\doinumber{10.11612/resphilosophica.2013.01.01}</code> . You probably should not use this macro.
-------------------------	---

<code>\prevpaper</code>	Instead of setting <code>\startpage</code> , one can use the the command <code>\prevpaper{&lt;previous paper&gt;}</code> , 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.

<code>\EditorialComment</code>	The macro <code>\EditorialComment[&lt;comments&gt;]</code> typesets the comments on the margins in the <code>manuscript</code> 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 entry<sup>1</sup>, 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}
```

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<sup>1</sup>This 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}

```

\ifRESP@preprint Whether we are in the preprint mode

```

60 \newif\ifRESP@preprint
61 \RESP@preprintfalse
62 \DeclareOptionX{preprint}{\RESP@preprinttrue}

```

\ifRESP@forthcoming Whether we are in the forthcoming mode

```

63 \newif\ifRESP@forthcoming
64 \RESP@forthcomingfalse
65 \DeclareOptionX{forthcoming}{\RESP@forthcomingtrue}

```

All other options are passed to amsart:

```

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

```

And executing options:

```

67 \ProcessOptionsX

```



## 3.2 Loading Classes and Packages

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

```
68 \LoadClass[noamsfonts]{amsart}

Some packages
69 \RequirePackage{microtype, fancyhdr, xcolor, lastpage}
70 \RequirePackage[bottom,multiple]{footmisc}
71 \RequirePackage[hyperfootnotes=false]{hyperref}
72 \urlstyle{rm}
73 \ifRESP@manuscript\hypersetup{colorlinks,allcolors=blue}\else
74   \ifRESP@screen\hypersetup{colorlinks,allcolors=blue}\else
75     \ifRESP@preprint\hypersetup{colorlinks,allcolors=blue}\else
76       \ifRESP@forthcoming\hypersetup{colorlinks,allcolors=blue}\else
77         \hypersetup{hidelinks}\fi\fi\fi\fi
```

The font to use depends on the options. Note that L<sup>A</sup>T<sub>E</sub>X cannot reliably determine whether a binary file like `SabonLTRom.pfb` exists in the system, so we check for the `.fd` file instead (sigh):

```
78 \ifRESP@fontauto
79   \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:

```
80 \ifRESP@lsabon
81   \RequirePackage[mdugm]{mathdesign}
82   \RequirePackage[rmdefault]{lsabon}
83   \renewcommand\scdefault{sc}
84 \fi
```

Checking the existence of `miih` font metrics:

```
85 \ifRESP@rpfontauto
86   \IfFileExists{t1miih.fd}{\RESP@mtshadowtrue}{\RESP@mtshadowfalse}\fi
```

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

```
87 \ifRESP@mtshadow
88   \def\rpdefault{miih}\else
89   \def\rpdefault{\rmdefault}\fi
```

`\AddtoEndMatter` A syntax sugar to add something after signature:

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

And loading `natbib`:

```
91 \ifRESP@natbib
92   \RequirePackage[round]{natbib}
93   \AtEndDocument{\bibliographystyle{resphilosophica}}
94   \let\RESP@bibliography=\bibliography
95   \def\bibliography#1{\AddtoEndMatter{\RESP@bibliography{#1}}}
96   \def\bibsection{\par\addpenalty\@secpenalty\addvspace{\bigskipamount}%
97     \noindent \Small References:\par\nobreak\vskip\medskipamount\@afterheading}
98   \def\bibfont{\Small}
99 \fi
```

### 3.3 Page Dimensions and Paragraphing

`\pdfpaperwidth` Paper:

`\pdfpaperheight` 100 `\ifRESP@manuscript\else`  
 101 `\AtBeginDocument{\setlength{\pdfpagewidth}{432bp}%`  
 102 `\setlength{\pdfpageheight}{648bp}}`  
 103 `\fi`

`\textwidth` The size of the type block:

`\textheight` 104 `\setlength{\textwidth}{318pt}`  
 105 `\setlength{\textheight}{540pt}`

`\evensidemargin` The margins:

`\oddsidemargin` 106 `\setlength{\evensidemargin}{-18pt}`  
 107 `\setlength{\oddsidemargin}{\evensidemargin}`

`\topmargin` Top margin  
 108 `\setlength{\topmargin}{-48pt}`

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

### 3.4 Headers

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

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

`\headrulewidth` We do not want decorative rules in the journal:

`\footrulewidth` 112 `\renewcommand{\headrulewidth}{0pt}`  
 113 `\renewcommand{\footrulewidth}{0pt}`

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

`\RESP@printlinecount` Do we want to print line count?  
 115 `\newif\ifRESP@printlinecount`  
 116 `\RESP@printlinecountfalse`  
 117 `\ifRESP@manuscript\RESP@printlinecounttrue\fi`  
 118 `\ifRESP@preprint\RESP@printlinecounttrue\fi`

`\RESP@linecount` This is the box displayed in the manuscript mode  
 119 `\ifRESP@printlinecount`  
 120 `\newsavebox{\RESP@linecount}`  
 121 `\savebox{\RESP@linecount}[4em][t]{\parbox[t]{4em}{%`

```

122 \tempcnta\@ne\relax
123 \loop{\color{red}\scriptsize\the\tempcnta}\
124 \advance\tempcnta by \@ne\ifnum\tempcnta<47\repeat}}
125 \fi

```

It is easy to set up headers with fancyhdr:

```

126 \pagestyle{fancy}
127 \fancyhead{}
128 \fancyfoot{}
129 \fancyhead[LE]{\footnotesize\thepage\quad\itshape\shortauthors}
130 \fancyhead[RO]{\footnotesize\textit{\shorttitle}\quad\thepage}
131 \ifRESP@printlinecount
132 \fancyhead[LE]{\begin{picture}(0,0)%
133 \put(-26,-22){\usebox{\RESP@linecount}}}%
134 \end{picture}\footnotesize\thepage\quad\itshape\shortauthors}
135 \fancyhead[LO]{\begin{picture}(0,0)%
136 \put(-21,-22){\usebox{\RESP@linecount}}}%
137 \end{picture}}
138 \fi
139 \ifRESP@manuscript
140 \fancyfoot[C]{\scriptsize\color{red}Author's Proof}%
141 \fi
142 \ifRESP@preprint
143 \fancyfoot[C]{\scriptsize\color{red}Author's Pre-Print}%
144 \fi

```

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

```

145 \fancypagestyle{firstpage}{%
146 \fancyhf{}%
147 \ifRESP@printlinecount
148 \lhead{\begin{picture}(0,0)%
149 \put(-26,-20){\usebox{\RESP@linecount}}}%
150 \end{picture}}
151 \fi
152 \ifRESP@preprint
153 \cfoot{\footnotesize{\fontfamily{\rpdefault}\selectfont Res Philosophica,}
154 \itshape Vol.\currentvolume, No.\currentissue,
155 \currentmonth\currentyear
156 \ifx\@doinumber\@empty\else\\%
157 \doi{\@doinumber}\fi
158 \\
159 \@copyrightnote}%
160 \chead{\scriptsize\color{red}Author's Pre-print. Forthcoming in
161 Res Philosophica. Pagination may change. Published version will
162 be available at \url{http://pdcnet.org/resphilosophica/}}
163 \else
164 \ifRESP@forthcoming
165 \cfoot{\footnotesize\itshape Res
166 Philosophica%

```

```

167 \ifx\currentvolume\@empty\else, %
168 Vol.\currentvolume\fi
169 \ifx\currentissue\@empty\else, No.\currentissue\fi
170 \ifx\currentmonth\@empty
171 \ifx\currentyear\@empty\else, \currentyear\fi
172 \else,
173 \currentmonth~\currentyear
174 \fi
175 \ifx\@doinumber\@empty\else\\%
176 \doi{\@doinumber}\fi
177 \\
178 \@copyrightnote}%
179 \head{\vspace*{-\bigskipamount}\footnotesize Forthcoming in \emph{Res
180 Philosophica}}%
181 \ifx\currentvolume\@empty\else~\currentvolume
182 \ifx\currentissue\@empty\else:\currentissue\fi\fi
183 \ifx\currentyear\@empty\else~(\currentyear)\fi.}
184 \else
185 \cfoot{\footnotesize{\fontfamily{\rpdefault}\selectfont Res Philosophica,}
186 \itshape Vol.\currentvolume, No.\currentissue,
187 \currentmonth~\currentyear, pp.\start@page--\end@page
188 \ifx\@doinumber\@empty\else\\%
189 \doi{\@doinumber}\fi
190 \\
191 \@copyrightnote}%
192 \fi\fi}

```

### 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>	<p>This sets the volume of the paper</p> <pre> 193 \def\volumenumber#1{\def\currentvolume{#1}} 194 \volumenumber{} </pre>
<code>\issuenumber</code>	<p>This sets the issue of the paper:</p> <pre> 195 \def\issuenumber#1{\def\currentissue{#1}} 196 \issuenumber{} </pre>
<code>\publicationyear</code>	<p>This sets the year of the paper</p> <pre> 197 \def\publicationyear#1{\def\currentyear{#1}} 198 \publicationyear{} </pre>
<code>\publicationmonth</code>	<p>This sets the month of the paper</p> <pre> 199 \def\publicationmonth#1{\def\currentmonth{#1}} 200 \publicationmonth{} </pre>

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

```

201 \def\papernumber#1{\def\currentpaper{#1}}
202 \papernumber{0000}
203 %
204 % \end{macro}
205 %
206 %
207 % \begin{macro}{\doinumber}
208 % \changes{v1.11}{2012/12/25}{Added default}
209 % DOI number for the article:
210 % \begin{macrocode}
211 \def\doinumber#1{\gdef\@doinumber{#1}}
212 \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...

```

213 \def\startpage#1{\pagenumbering{arabic}\setcounter{page}{#1}%
214 \def\start@page{#1}%
215 \ifnum\c@page<z@ \pagenumbering{roman}\setcounter{page}{-#1}%
216 \def\start@page{\romannumeral#1}%
217 \fi}

```

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

```

218 \def\endpage#1{\def\@tempa{#1}%
219 \ifx\@tempa\@empty\def\end@page{\pageref{LastPage}}%
220 \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.

```

221 \def\pagespan#1#2{\startpage{#1}\endpage{#2}}
222 \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

```

223 \def\articleentry#1#2#3#4{\@tempcnta=#4\relax
224 \advance\@tempcnta by 1\relax
225 \ifodd\the\@tempcnta\else\advance\@tempcnta by 1\relax\fi
226 \startpage{\the\@tempcnta}}

```

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

```

227 \def\prevpaper#1{\IfFileExists{#1.rpi}{%
228 \ClassInfo{resphilosophica}{%
229 Reading first page number from the file #1.rpi}%
230 \input{#1.rpi}%

```

```

231 }{\ClassWarning{resphilosophica}{Cannot find the file #1.rpi.
232     Did you run latex on the previous paper?}}

abstract We slightly redefine abstract comparing to amsart conventions:
233 \renewenvironment{abstract}{%
234     \ifx\maketitle\relax
235         \ClassWarning{resphilosophica}{Abstract should precede
236             \protect\maketitle\space in AMS derived classes}%
237     \fi
238     \global\setbox\abstractbox=\vtop\bgroup%
239     \vglue1pc%
240     \list{}{\labelwidth\z@%
241         \leftmargin3pc \rightmargin\leftmargin%
242         \listparindent\normalparindent \itemindent\z@%
243         \parsep\z@ \@plus\p@%
244         \let\fullwidthdisplay\relax%
245     }%
246     \item[]\normalfont\normalsize\textbf{\abstractname:}\space
247 }{%
248     \endlist\egroup%
249     \ifx\@setabstract\relax\@setabstracta\fi%
250 }

\copyrightyear This is the copyright year in case it does not coincide with the publication year:
251 \def\copyrightyear#1{\def\@copyrightyear{#1}}
252 \ifRESP@forthcoming
253     \copyrightyear{\the\year}\else
254     \copyrightyear{}\fi

\RESP@bulletboxwidth This is the width of a box with a bullet for copyright note:
255 \newlength\RESP@bulletboxwidth
256 \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]).
257 \def\copyrightnote#1{\def\@copyrightnote{#1}}
258 \copyrightnote{\textcopyright~%
259     \ifx\@empty\@copyrightyear\currentyear\else\@copyrightyear\fi~%
260     \shortauthors\cleaders\hbox{\quad\textbullet\quad}\hskip\RESP@bulletboxwidth
261     \textcopyright~%
262     \ifx\@empty\@copyrightyear\currentyear\else\@copyrightyear\fi~%
263     {\ifRESP@forthcoming\else\normalfont\fontfamily{\rpdefault}\selectfont\fi Res~Philosophica}}

\author The base class puts into \addresses the strange line \author{}. We correct this:
264 \renewcommand{\author}[2][]{%
265     \ifx\@empty\addresses
266         \gdef\addresses{\author{#2}}%

```

```

267 \else
268   \g@addto@macro\addresses{\author{#2}}%
269 \fi
270 \ifx\@empty\authors
271   \gdef\authors{#2}%
272 \else
273   \g@addto@macro\authors{\and#2}%
274 \fi
275 \@ifnotempty{#1}{%
276   \ifx\@empty\shortauthors
277     \gdef\shortauthors{#1}%
278   \else
279     \g@addto@macro\shortauthors{\and#1}%
280   \fi
281 }%
282 }
283 \edef\author{\@nx\@dblarg
284   \@xp\@nx\csname\string\author\endcsname}

```

`\titlenote` This command adds an entry to the list of titlenotes

```

285 \def\@titlenotes{}%
286 \def\titlenote#1{%
287   \ifx\@empty\@titlenotes\gdef\@titlenotes{\footnote{#1}}%
288   \else\g@addto@macro\@titlenotes{\footnote{#1}}\fi}

```

### 3.6 Typesetting Top Matter

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

```

289 \def\settitle{\begin{center}%
290   \baselineskip20\p@relax
291   \LARGE\scshape
292   \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
293   \@title\@titlenotes
294   \hypersetup{pdftitle=\@title}%
295   \end{center}%
296 }

```

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

```

297 \def\setauthors{%
298   \ifx\authors\@empty\relax\else
299     \begingroup
300     \def\thanks{\protect\thanks@warning}%
301     \trivlist
302     \centering\footnotesize \@topsep30\p@relax
303     \advance\@topsep by -\baselineskip
304     \item\relax
305     \def\@and{{and}}
306     \author@andify\authors

```

```

307 \hypersetup{pdfauthor=\authors}%
308 \def\{\protect\linebreak}%
309 \large\normalfont\authors%
310 \endtrivlist
311 \endgroup
312 \fi}

```

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

```

313 \def\maketitle{\par
314 \topnum\z@ % this prevents figures from falling at the top of page 1
315 \setcopyright
316 \thispagestyle{firstpage}% this sets first page specifications
317 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
318 \else \andify\shortauthors
319 \fi
320 \@maketitle@hook
321 \RESP@write@paper@info
322 \begingroup
323 \@maketitle
324 \toks@{\xp{\shortauthors}\temptokena\xp{\shorttitle}}%
325 \toks4{\def\{\ignorespaces}}% defend against questionable usage
326 \edef\@tempa{%
327 \nx\markboth{\the\toks4
328 \nx\MakeUppercase{\the\toks@}}{\the\temptokena}}%
329 \@tempa
330 \endgroup
331 \c@footnote\z@
332 \cleartopmattertags
333 }

```

`@maketitle` We delete top space introduced by `amsart`:

```

334 \def@maketitle{%
335 \normalfont\normalsize
336 \adminfootnotes
337 \mkboth{\nx\shortauthors}{\nx\shorttitle}%
338 @settitle
339 \ifx\@empty\authors \else @setauthors \fi
340 \ifx\@empty@dedicatory
341 \else
342 \baselineskip18\p@
343 \vtop{\centering{\footnotesize\itshape@dedicatory@@par}}%
344 \global\dimen@i\prevdepth\prevdepth\dimen@i
345 \fi
346 @setabstract
347 \normalsize
348 \if@titlepage
349 \newpage
350 \else
351 \dimen@34\p@ \advance\dimen@-\baselineskip

```



```

352     \vskip\dimen@ \relax
353     \fi
354 } % end \@maketitle

\@mainrpi The stream for the rpi file:
355 \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
356 \def\RESP@write@paper@info{%
357     \bgroup
358     \if@filesw
359         \openout\@mainrpi\jobname.rpi%
360         \write\@mainrpi{\relax}%
361         \ifx\r@LastPage\@undefined
362             \edef\@tempa{\start@page}%
363         \else
364             \def\@tempb##1##2##3##4##5{##2}%
365             \edef\@tempa{\expandafter\@tempb\r@LastPage}%
366         \fi
367         \def\and{\string\and\space}%
368         \protected@write\@mainrpi{%
369             {\string\articleentry{\authors}{\@title}{\start@page}{\@tempa}}%
The next lines are for crossref software
370         \protected@write\@mainrpi{%
371             {\@percentchar authors=\authors}%
372         \protected@write\@mainrpi{%
373             {\@percentchar title=\@title}%
374         \protected@write\@mainrpi{%
375             {\@percentchar year=\currentyear}%
376         \protected@write\@mainrpi{%
377             {\@percentchar volume=\currentvolume}%
378         \protected@write\@mainrpi{%
379             {\@percentchar issue=\currentissue}%
380         \protected@write\@mainrpi{%
381             {\@percentchar paper=\currentpaper}%
382         \protected@write\@mainrpi{%
383             {\@percentchar startpage=\start@page}%
384         \protected@write\@mainrpi{%
385             {\@percentchar endpage=\@tempa}%
386         \protected@write\@mainrpi{%
387             {\@percentchar doi=\@doinumber}%
388         \closeout\@mainrpi
389         \fi
390     \egroup}

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

```

`\@cleartopmattertags` We typeset thankses at the end of the paper so we do not clear them:

```

392 \def\@cleartopmattertags{%
393   \def\do##1{\let##1\relax}%
394   \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
395   \do\author \do\@xauthor \do\address \do\@xaddress
396   \do\contrib \do\contribs \do\@xcontribs \do\tocontribs
397   \do\email \do\@xemail \do\curraddr \do\@xcurraddr
398   \do\commby \do\@commby
399   \do\dedicatory \do\@dedicatory \do\thanks
400   \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:

```

401   \def\sfsf@size{7pt}%
402 }

```

### 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

```

403 \newif\if@enddoc
404 \@enddocfalse

```

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

```

405 \def\enddoc@text{%
406   \@enddoctrue\def\bibliography{\RESP@bibliography}%
407   \ifx\@empty\thankses\else
408     \bgroup
409     \let\@makefnmark\relax
410     \let\@thefnmark\relax

```

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

```

411   \ifx\lastfootnote@page\@undefined\else
412     \@tempcnta=\lastfootnote@page\relax
413     \ifnum\c@page=\@tempcnta\relax
414       \insert\footins{\medskip}%
415     \fi
416   \fi
417   \@footnotetext{%
418     \def\par{\let\par\@par}\textbf{Acknowledgements\quad} \@setthanks}%
419   \egroup
420   \fi
421   \ifx\@empty\@translators \else\@settranslators\fi
422   \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

```

423 \newif\ifRESP@firstingroup

\emailaddrname The name for e-mail address:
424 \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:
425 \def\@setaddresses{\par
426 \nobreak \begingroup\flushright\clubpenalty\@MM\interlinepenalty\@MM
427 \widowpenalty\@MM
428 \RESP@firstingroupttrue
429 \Small
430 \def\author##1{\nobreak\ifRESP@firstingroup\par
431 \addvspace\bigskipamount\penalty-1000\fi
432 \RESP@firstingrouptfalse##1\par\nobreak}%
433 \parindent\z@
434 \def\address##1##2{\RESP@firstingroupttrue\begingroup
435 \par\nobreak
436 \ifnotempty{##1}{(\ignorespaces##1\unskip) }%
437 {\ignorespaces##2}\par\endgroup}%
438 \def\curraddr##1##2{\RESP@firstingroupttrue\begingroup
439 \ifnotempty{##2}{\nobreak\indent\curraddrname
440 \ifnotempty{##1}{, \ignorespaces##1\unskip}\hskip0.2em:\space
441 ##2\par}\endgroup}%
442 \def\email##1##2{\RESP@firstingroupttrue\begingroup
443 \ifnotempty{##2}{\nobreak\indent\emailaddrname
444 \ifnotempty{##1}{, \ignorespaces##1\unskip}\hskip0.2em:\space
445 \href{mailto:##2}{\nolinkurl{##2}}\par}\endgroup}%
446 \def\urladdr##1##2{\RESP@firstingroupttrue\begingroup
447 \ifnotempty{##2}{\nobreak\indent
448 \ifnotempty{##1}{, \ignorespaces##1\unskip}%
449 \url{##2}\par}\endgroup}%
450 \addresses
451 \endgroup
452 }
```

At the end we eject the last page

```

453 \AtEndDocument{\cleardoublepage}
```

### 3.8 Sectioning

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

```

454 \def\@secCNTformat#1{%
455 \csname the#1\endcsname\enspace
456 }
```

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

```

457 \renewcommand\section{\@startsection {section}{1}{\z@}%
458                                     {-3.5ex \@plus -1ex \@minus -.2ex}%
459                                     {2.3ex \@plus .2ex}%
460                                     {\normalfont\large\bfseries}}

```

`\subsection` Subsections are bold

```

461 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
462                                     {-3.25ex \@plus -1ex \@minus -.2ex}%
463                                     {1.5ex \@plus .2ex}%
464                                     {\normalfont\normalsize\bfseries}}

```

`\subsubsection` Subsubsections are normalsize and italic

```

465 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
466                                     {-3.25ex \@plus -1ex \@minus -.2ex}%
467                                     {1.5ex \@plus .2ex}%
468                                     {\normalfont\normalsize\itshape}}

```

`\paragraph` Paragraphs:

```

469 \renewcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
470                                     {3.25ex \@plus 1ex \@minus .2ex}%
471                                     {-1em}%
472                                     {\normalfont\normalsize\bfseries}}

```

`\subparagraph` Paragraphs:

```

473 \renewcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
474                                     {3.25ex \@plus 1ex \@minus .2ex}%
475                                     {-1em}%
476                                     {\normalfont\normalsize\bfseries}}

```

### 3.9 Additional Commands

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

```

477 \@mparswitchfalse

```

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

```

478 \def\EditorialComment#1{\ifRESP@manuscript\bgroup
479   \marginparwidth=200pt\marginpar{\color{red}%
480     \raggedright#1}\egroup\fi}

```

`\doi` Typesetting doi...

```

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

```

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

```

482 \def\@makefntext{\noindent\@makefnmark
483   \if@enddoc\else
484     \immediate\write\@mainaux%

```

```

485     {\string\xdef\string\lastfootnote@page{\the\c@page}}%
486     \fi}
487 \long\def\@footnotetext#1{%
488     \insert\footins{%
489         \normalfont\footnotesize
490         \interlinepenalty\interfootnotelinepenalty
491         \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
492         \floatingpenalty\@MM \hsize\columnwidth
493         \@parboxrestore \parindent\normalparindent \sloppy
494         \protected@edef\@currentlabel{%
495             \csname p@footnote\endcsname\@thefnmark}%
496         \@makefnmark}%
497         \rule{z@{\footnotesep}\ignorespaces#1\unskip\strut\par}}

```

### 3.10 The End

Philosophers love footnotes, since `\raggedbottom`

```

498 \raggedbottom\normalsize\normalfont
499 \end{class}

```

## References

- [1] Boris Veytsman. *Support files for the Linotype Sabon Fonts*, August 2012. <http://mirrors.ctan.org/fonts/lsabon/>.
- [2] Boris Veytsman. *LaTeX Support for Monotype Imprint Shadow Font*, August 2012. <http://mirrors.ctan.org/fonts/imprintshadow/>.
- [3] Patrick W. Daly. *Natural Sciences Citations and References (Author-Year and Numerical Schemes)*, February 2009. <http://mirrors.ctan.org/macros/latex/contrib/natbib>.
- [4] American Mathematical Society. *Instructions for Preparation of Papers and Monographs, AMSLaTeX*, August 2004. <http://mirrors.ctan.org/macros/latex/required/amslatex/classes/instr-1.pdf>.
- [5] Paweł Jackowski. TeX beauties and oddities. *TUGboat*, 29:207–215, 2008. <http://www.tug.org/TUGboat/tb29-1/tb91pearls.pdf>.

## Change History

v1.1			
	<code>\@maketitle</code> : Redefined macro	16	
	<code>\@mparswitch</code> : Changed default	20	
	<code>\@setauthors</code> : Changed font	15	
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	<code>\doi</code> : Added macro	20	
	<code>\EditorialComment</code> : Added macro	20	
	<code>\ifRESP@mtshadow</code> : Added macro	7	
	<code>\ifRESP@rpfontoauto</code> : Added macro	7	
	<code>rpfont</code> : Added option	7	
	<code>\RESP@write@paper@info</code> : Added protection for <code>\</code>	17	
	<code>\rpdefault</code> : Added macro	9	
	<code>\section</code> : Moved to LaTeX defaults	20	
	<code>\subsection</code> : Moved to LaTeX defaults	20	
	<code>\subsubsection</code> : Moved to LaTeX defaults	20	
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v1.11	General: Bibliography changes	1	
	<code>\papernumber</code> : Added macro	13	
	<code>\RESP@write@paper@info</code> : Added writing info for crossref	17	
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v1.13	<code>\@settitle</code> : Added titlenotes	15	
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	<code>\@cleartopmattertags</code> : Redefined	18	
	<code>\@setaddresses</code> : Changed font	19	
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	<code>\pdfpaperheight</code> : Deleted ifpdf	10	
	<code>\RESP@linecount</code> : Changed check for linecount	10	
v1.4	<code>\@makefntext</code> : Redefined	20	
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	Added screen option	1	
	Changed bibsection font	9	
	Changed color of ‘Author’s proof’ mark	11	
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\@makefnctext: Added writing the		v1.8	
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General: Changed color for headers		\enddoc@text: Changed bibliogra-	
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