

# The ejpecp class<sup>\*†</sup>

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## 1 Introduction

The *ejpecp* L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> class is designed for the typesetting of articles for the mathematical research periodicals Electronic Journal of Probability (EJP) and Electronic Communications in Probability (ECP).

## 2 Usage

This class works only with the pdf<sub>l</sub>atex engine. See the sample file for its usage.

## 3 Implementation

```
1 %% We declare and handle our class options
2 \DeclareOption{EJP}{%
3   \newcommand{\@EJP}{}
4   \newcommand{\@JOURNAL}{EJP}
5   \newcommand{\@JOURNALA}{Electron. J. Probab.}
6   \newcommand{\@JOURNALL}{Electronic Journal of Probability}
7   \newcommand{\@ISSN}{1083-6489}
8   \newcommand{\@URL}{www.imstat.org/ejp}
9   \newcommand{\@FULLURL}{https://imstat.org/journals-and-publications/electronic-journal-of-probability/}
10  }
11 \DeclareOption{ECP}{%
12   \newcommand{\@ECP}{}
13   \newcommand{\@JOURNAL}{ECP}
14   \newcommand{\@JOURNALA}{Electron. Commun. Probab.}
15   \newcommand{\@JOURNALL}{Electronic Communications in Probability}
16   \newcommand{\@ISSN}{1083-589X}
17   \newcommand{\@URL}{www.imstat.org/ecp}
18   \newcommand{\@FULLURL}{https://imstat.org/journals-and-publications/electronic-communications-in-probability/}
19  }
20 \DeclareOption{NOAMS}{% prevents the load of AMS packages
21   \newcommand{\@NOAMS}{}
22  }
23 \DeclareOption{NODS}{% asks to avoid renaming \mathbb into \mathds
24   \newcommand{\@NODS}{}
25  }
26 \DeclareOption{PSTRICKS}{% pstricks and pspicture.
27   % File must be compiled with "latex --shell-escape", then use dvipdf
28   \newcommand{\@PSTRICKS}{}
29  }
30 \DeclareOption{draft}{%
31   \PassOptionsToClass{draft}{article}
32  }
33 \DeclareOption{final}{%
34   \PassOptionsToClass{final}{article}
```

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\*class for EJP and ECP journals v1.8.3 dated 2020/08/26.

†Current maintainer of class file is VTeX, Lithuania. Please send all queries to latex-support@vtex.lt.

```

35 }
36 \DeclareOption*{%
37   \PackageWarning{ejpecp}{Unknown option \CurrentOption}%
38 }
39 %\ExecuteOptions{EJP}
40 \ProcessOptions\relax
41 %% We use the standard article class
42 \LoadClass[a4paper,10pt,twoside]{article}
43 %% Packages and their options
44 \RequirePackage{graphicx}
45 \ifx\@PSTRICKS\undefined
46   \DeclareGraphicsExtensions{.pdf,.PDF,.eps,.EPS,.png,.PNG,.jpg,.JPG,.jpeg,.JPEG}
47 \else
48   \RequirePackage[pdf]{pstricks}
49   \RequirePackage{auto-pst-pdf}
50 \fi
51 \RequirePackage{mathtools}
52 \RequirePackage{microtype}
53 \RequirePackage{lastpage}
54 \RequirePackage{latexsym}
55 \ifx\@NODS\undefined
56   \RequirePackage{dsfont}
57 \fi
58 \ifx\@NOAMS\undefined
59   \RequirePackage{amsmath,amsfonts,amssymb,amsthm}
60 \fi
61 \RequirePackage{geometry}
62 \geometry{a4paper,portrait,left=3.5cm,right=3.5cm,top=3.5cm,bottom=3.5cm}
63 %\RequirePackage{charter} % Ph. Carmona
64 \RequirePackage{bera} % beware that the logo is sensitive to default font change
65 \RequirePackage{hyperref}
66 \hypersetup{
67   pagebackref=false,
68   pdfborder={0 0 0},
69   pdfstartview={FitH},
70   hypertexnames=false,
71   breaklinks,
72 }
73 \def\UrlFont{}
74 %%% Macros et Environments
75 %% General macros
76 \newcommand{\@TITLE}{FIXME!}
77 \newcommand{\@SHORTTITLE}{FIXME!}
78 \newcommand{\@KEYWORDS}{FIXME!}
79 \newcommand{\@AMSSUBJ}{FIXME!}
80 \newcommand{\@ABSTRACT}{FIXME!}
81 \newcommand{\@VOLUME}{0}
82 \newcommand{\@PAPERNUM}{0}
83 \newcommand{\@YEAR}{2012}
84 \newcommand{\@PAGESTART}{1}
85 \newcommand{\@PAGEEND}{\pageref{LastPage}} % using lastpage package
86 \newcommand{\@SUBMITTED}{FIXME!}
87 \newcommand{\@ACCEPTED}{FIXME!}
88 \newcommand{\TITLE}[1]{\renewcommand{\@TITLE}{#1}}
89 \newcommand{\SHORTTITLE}[1]{\renewcommand{\@SHORTTITLE}{#1}}
90 \newcommand{\DEDICATORY}[1]{\gdef\@DEDICATORY{#1}}
91 \newcommand{\AUTHORS}[1]{\author{#1}}
92 \let\FIRSTNAMES\@firstofone
93 \let\SURNAME\@firstofone
94 \newcommand{\KEYWORDS}[1]{\renewcommand{\@KEYWORDS}{#1}}
95 \newcommand{\AMSSUBJ}[1]{\renewcommand{\@AMSSUBJ}{#1}}
96 \newcommand{\AMSSUBJSECONDARY}[1]{\gdef\@AMSSUBJSECONDARY{#1}}
97 \newcommand{\ABSTRACT}[1]{\renewcommand{\@ABSTRACT}{#1}}

```

```

98 \newcommand{\VOLUME}[1]{\renewcommand{\@VOLUME}{#1}}
99 \newcommand{\PAPERNUM}[1]{\renewcommand{\@PAPERNUM}{#1}}
100 \newcommand{\YEAR}[1]{\renewcommand{\@YEAR}{#1}}
101 \newcommand{\PAGESTART}[1]{\renewcommand{\@PAGESTART}{#1}}
102 \newcommand{\PAGEEND}[1]{\renewcommand{\@PAGEEND}{#1}}
103 \newcommand{\SUBMITTED}[1]{\renewcommand{\@SUBMITTED}{#1}}
104 \newcommand{\ACCEPTED}[1]{\renewcommand{\@ACCEPTED}{#1}}
105 \newcommand{\DOI}[1]{\gdef\@DOI{#1}}
106 \newcommand{\ARXIVID}[1]{\gdef\@ARXIVID{#1}}
107 \newcommand{\HALID}[1]{\gdef\@HALID{#1}}
108 \newcommand{\ACKNO}[1]{\noindent\textbf{Acknowledgments.} #1}
109 \def\EMAIL#1{E-mail: ~\texttt{\href{mailto:#1}{\nolinkurl{#1}}}}
110 \newcommand{\BEMAIL}[1]{\newline\hspace*{1.8em}\EMAIL{#1}} % useful in ftnotes
111 %% Logos
112 \newcommand{\@EJPLOGO}{% designed by KB.
113 % This version is for bera 10pt (depends on the font via "em" and "ex")
114 \centerline{%
115 \hbox{%
116 \vrule height -0.4 pt depth 0.8 pt width 27.7 em\space
117 \kern -27.8 em\space
118 \raise 0.03ex \hbox {\bf E}\space
119 \raise 0.06ex \hbox {l}\space
120 \raise .13ex \hbox {e}\space
121 \raise .24ex \hbox {c}\space
122 \raise .45ex \hbox {t}\space
123 \raise .78ex \hbox {r}\space
124 \raise 1.31ex \hbox {o}\space
125 \raise 2.08ex \hbox {n}\space
126 \raise 3.14ex \hbox {i}\space
127 \raise 4.53ex \hbox {c}\space
128 \kern 1em\space
129 \raise 8.15ex \hbox {\bf J}\space
130 \raise 10.15ex \hbox {o}\space
131 \raise 12.04ex \hbox {u}\space
132 \raise 13.60ex \hbox {r}\space
133 \raise 14.64ex \hbox {n}\space
134 \kern .3 em\space
135 \vrule depth 0.8pt height 14.5ex \space
136 \kern -.3em\space
137 \raise 15ex \hbox {a}\space
138 \raise 14.64ex \hbox {l}\space
139 \kern 1em\space
140 \raise 12.04ex \hbox {o}\space
141 \raise 10.15ex \hbox {f}\space
142 \kern 1em\space
143 \raise 6.23ex \hbox {\bf P}\space
144 \raise 4.53ex \hbox {r}\space
145 \raise 3.14ex \hbox {o}\space
146 \raise 2.08ex \hbox {b}\space
147 \raise 1.31ex \hbox {a}\space
148 \raise .78ex \hbox {b}\space
149 \raise .45ex \hbox {i}\space
150 \raise .24ex \hbox {l}\space
151 \raise .13ex \hbox {i}\space
152 \raise .06ex \hbox {t}\space
153 \raise .03ex \hbox {y}}%
154 }%
155 }%
156 }%EJPLOGO
157 \newcommand{\@ECPLOGO}{% designed when Ren'e Carmona was in charge of ECP
158 \raisebox{0.3cm}{\parbox[t]{1.3in}{\noindent\rule{1.3in}{1.6pt}}\
159 \textbf{ ELECTRONIC}\
160 \textbf{ COMMUNICATIONS}\

```

```

161     \textbf{ in PROBABILITY}\
162     \rule[.08in]{1.3in}{1.6pt}}}%
163 }%ECPLOGO
164 \def\doiprefix{https://doi.org/}
165 \def\printdoi{\texttt{\href{\doiprefix\@DOI}{\doiprefix\@DOI}}}
166 \def\msc@url{https://ams.org/mathscinet/msc/msc2020.html}
167 %% make title long
168 \renewcommand\title[1]{\gdef\@title{#1}}
169 %% Macro handling the first page
170 \def\papernum@name{no.}
171 \newcommand{\FIRSTPAGE}{%
172   \setcounter{page}{\@PAGESTART}%
173   \title{\small
174     \ifx\@EJP\undefined\else
175       \@EJPLOGO
176       \bigskip
177       \centerline{\@JOURNALA\ \textbf{\@VOLUME} (\@YEAR),\
178         \papernum@name\ \@PAPERNUM, \,\@PAGESTART--\@PAGEEND.}%
179       \centerline{ISSN:\ \texttt{\href{\@FULLURL}{\@ISSN}} \%
180         \ifx\@DOI\undefined\else
181           \ \printdoi
182         \fi}%
183       \bigskip
184       \bigskip
185       {\Large\bfseries\@TITLE\par}%
186     \fi
187     \ifx\@ECP\undefined
188     \else
189       \parbox[t]{9cm}{%
190         \@JOURNALA\ \textbf{\@VOLUME} (\@YEAR),
191         \papernum@name\ \@PAPERNUM, \@PAGESTART--\@PAGEEND.\
192         \ifx\@DOI\undefined
193         \else
194           \ \printdoi
195         \fi \
196         ISSN:\ \texttt{\href{\@FULLURL}{\@ISSN}}}%
197       }%
198     \hfill
199     \@ECPLOGO\
200     \bigskip
201     \bigskip
202     {\Large\@TITLE\par}%
203     \fi
204   }% end title
205 \date{%
206   \ifx\@DEDICATORY\undefined
207   \else
208     \noindent
209     \emph{\small\sffamily\@DEDICATORY}%
210     \fi}%
211 \maketitle\thispagestyle{empty}%
212 \begin{abstract}%
213   \noindent
214   \@ABSTRACT\par\vskip 1em\relax
215   {\footnotesize
216     \noindent\textbf{Keywords: } \@KEYWORDS.\par
217     \noindent\href{msc@url}{\textbf{MSC2020 subject classifications: }}%
218     \ifx\@AMSSUBJSECONDARY\undefined
219     \noindent
220     \@AMSSUBJ.\par
221     \else
222     \noindent
223     Primary \@AMSSUBJ, Secondary \@AMSSUBJSECONDARY.\par

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```

224     \fi
225     \noindent
226     Submitted to \@JOURNAL\ on \@SUBMITTED,
227     final version accepted on \@ACCEPTED.\par
228     \ifx\@ARXIVID\undefined
229     \else
230     \noindent
231     Supersedes
232     \texttt{\href{https://arXiv.org/abs/\@ARXIVID}{arXiv:\@ARXIVID}}.%
233     \fi\par
234     \ifx\@HALID\undefined
235     \else
236     \noindent
237     Supersedes
238     \texttt{\href{https://hal.archives-ouvertes.fr/\@HALID}{HAL:\@HALID}}.%
239     \fi\par
240     }%footnotesize
241 \end{abstract}
242
243 \smallskip
244
245 }%END-FIRSTPAGE
246 %% Macro setting the PDF title
247 \newcommand{\PDFFIELDS}{%
248 \hypersetup{%
249 pdftitle={\@JOURNAL\ \@VOLUME\ (\@YEAR), \paperumname\ \@PAPERUM, \doiprefix\@DOI}}%
250 \hypersetup{pdfkeywords={\@KEYWORDS}}%
251 \hypersetup{pdfproducer={\@JOURNAL\ Managing Editor https://\@URL}}%
252 \hypersetup{pdfcreator={LaTeX with ejpecp.cls v1.8.2}}%
253 \hypersetup{pdfsubject={Probability Theory}}%
254 \hypersetup{pdfauthor={Please see \doiprefix\@DOI}}%
255 }%END-PDFFIELDS
256
257 %% Bibliography
258 \def\@MRExtract#1 #2!{#1} % thanks, Martin!
259 \newcommand{\MR}[1]{% we need to strip the "(...)"
260 \xdef\@MRSTRIP{\@MRExtract#1 !}%
261 \href{https://mathscinet.ams.org/mathscinet-getitem?mr=\@MRSTRIP}{MR-\@MRSTRIP}}
262 \newcommand{\ARXIV}[1]{\href{https://arXiv.org/abs/#1}{arXiv:#1}}
263 \def\bibliography@size{\small}
264 \renewenvironment{thebibliography}[1]
265 {%
266 \section*{\refname
267 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
268 \phantomsection
269 \addcontentsline{toc}{section}{\refname}%
270 \list{\@biblabel{\@arabic\c@enumiv}}%
271 {\settowidth\labelwidth{\@biblabel{#1}}%
272 \bibliography@size
273 \setlength{\labelsep}{0.4em}%
274 \setlength{\leftmargin}{\labelwidth}%
275 \addtolength{\leftmargin}{\labelsep}%
276 \setlength{\itemsep}{-.25em}%
277 \@openbib@code
278 \usecounter{enumiv}%
279 \let\p@enumiv\empty
280 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
281 \sloppy\clubpenalty4000\@clubpenalty\clubpenalty\widowpenalty4000%
282 \sfcode'\.\@m
283 }{%
284 \def\@noitemerr{%
285 \@latex@warning{Empty 'thebibliography' environment}}%
286 \endlist

```

```

287   }
288 %% Theorem styles
289 \ifx\@NOAMS\undefined
290   \newtheoremstyle{ejpecpbodyit}% name % cf. thmtest.tex of AMSLaTeX
291     {3pt}           % Space above
292     {3pt}           % Space below
293     {\itshape}     % Body font
294     {}             % Indent amount (empty = no indent,
295                   %           \parindent = para indent)
296     {\bfseries\sffamily} % Thm head font
297     {.}            % Punctuation after thm head
298     { }            % Space after thm head: " " = normal interword space;
299                   %           \newline = linebreak
300     {}             % Thm head spec (can be left empty, meaning 'normal')
301   \newtheoremstyle{ejpecpbodyrm}% name % cf. thmtest.tex of AMSLaTeX
302     {3pt}           % Space above
303     {3pt}           % Space below
304     {}             % Body font
305     {}             % Indent amount (empty = no indent,
306                   %           \parindent = para indent)
307     {\bfseries\sffamily} % Thm head font
308     {.}            % Punctuation after thm head
309     { }            % Space after thm head: " " = normal interword space;
310                   %           \newline = linebreak
311     {}             % Thm head spec (can be left empty, meaning 'normal')
312 \fi
313 %%
314 \ifx\@NOAMS\undefined
315   \theoremstyle{ejpecpbodyit}
316 \fi
317 \newtheorem{theorem}{Theorem}[section]
318 \newtheorem{assumptions}{theorem}[Assumptions]
319 \newtheorem{assumption}[theorem]{Assumption}
320 \newtheorem{claim}[theorem]{Claim}
321 \newtheorem{condition}[theorem]{Condition}
322 \newtheorem{conjecture}[theorem]{Conjecture}
323 \newtheorem{corollary}[theorem]{Corollary}
324 \newtheorem{definitions}[theorem]{Definitions}
325 \newtheorem{definition}[theorem]{Definition}
326 \newtheorem{facts}[theorem]{Facts}
327 \newtheorem{fact}[theorem]{Fact}
328 \newtheorem{heuristics}[theorem]{Heuristics}
329 \newtheorem{hypothesis}[theorem]{Hypothesis}
330 \newtheorem{hypotheses}[theorem]{Hypotheses}
331 \newtheorem{lemma}[theorem]{Lemma}
332 \newtheorem{notations}[theorem]{Notations}
333 \newtheorem{notation}[theorem]{Notation}
334 \newtheorem{proposition}[theorem]{Proposition}
335 \ifx\@NOAMS\undefined
336   \theoremstyle{ejpecpbodyrm}
337 \fi
338 \newtheorem{example}[theorem]{Example}
339 \newtheorem{exercise}[theorem]{Exercise}
340 \newtheorem{problem}[theorem]{Problem}
341 \newtheorem{question}[theorem]{Question}
342 \newtheorem{remark}[theorem]{Remark}
343 %% Numbering
344 \ifx\@NOAMS\undefined
345   \numberwithin{equation}{section}
346 \fi
347 %% Itemize and enumerate for bera
348 \newcommand{\@reduceitemsep}{\addtolength{\itemsep}{-0.5\baselineskip}}
349 \let\OLD@itemize\itemize

```

```

350 \renewcommand\itemize{\OLD@itemize\@reduceitemsep}
351 \let\OLD@enumerate\enumerate
352 \renewcommand\enumerate{\OLD@enumerate\@reduceitemsep}
353 %% Replace \mathbb by \mathds except if we require the contrary
354 \ifx\@NODS\undefined
355   \let\realmathbb=\mathbb
356   \let\mathbb=\mathds
357 \fi
358 %% Headings
359 \newcommand{\@HBLOB}{%
360   \href{\@doiprefix\@DOI}{%
361     {\@JOURNAL\ \textbf{\@VOLUME}\, (\@YEAR),\ paper \@PAPERNUM.}}
362 \renewcommand{\@evenfoot}{%
363   \normalfont\footnotesize\@HBLOB\hfil
364   \small\raisebox{-1em}{Page \thepage/\@PAGEEND}\hfil
365   \footnotesize\href{\@FULLURL}{https://\@URL}}
366 \renewcommand{\@oddfoot}{\@evenfoot}
367 \renewcommand{\@evenhead}{\hfil\@SHORTTITLE\hfil}
368 \renewcommand{\@oddhead}{\@evenhead}
369 %% smaller sections titles
370 \renewcommand{\section}{%
371   \@startsection
372     {section}
373     {1}
374     {0em}
375     {\baselineskip}
376     {0.5\baselineskip}
377     {\normalfont\large\bfseries}}
378 \renewcommand{\subsection}{%
379   \@startsection
380     {subsection}
381     {2}
382     {0em}
383     {\baselineskip}
384     {0.25\baselineskip}
385     {\normalfont\bfseries}}
386 \RequirePackage{afterpackage}
387 \AfterPackage{natbib}
388 {%
389   \def\bibcleanup{\vskip-\lastskip\vskip10\p@}%
390   \renewcommand{\bibfont}{\small}%
391   \newlength{\standard@parsep}%
392   \newlength{\standard@itemsep}%
393   \setlength{\standard@parsep}{4.0pt plus 2.0pt minus 1.0pt}%
394   \setlength{\standard@itemsep}{-2.02498pt}%
395   \setlength{\bibsep}{\standard@parsep}%
396   \addtolength{\bibsep}{\standard@itemsep}%
397   \renewcommand\NAT@bibsetnum[1]%
398     {%
399     \settowidth\labelwidth{\@biblabel{#1}}%
400     \setlength{\leftmargin}{\labelwidth}\addtolength{\leftmargin}{\labelsep}%
401     \setlength{\labelsep}{3pt}%
402     \setlength{\itemsep}{\bibsep}\setlength{\parsep}{\z@}%
403     \ifNAT@openbib
404     \addtolength{\leftmargin}{\bibindent}%
405     \setlength{\itemindent}{-\bibindent}%
406     \setlength{\listparindent}{\itemindent}%
407     \setlength{\parsep}{0pt}%
408     \fi
409   }%
410 }%
411 \def\amp{&}%
412 \InputIfFileExists{ejpecp.cfg}

```

```

413   {}
414   {\def\papernum@name{article no.}}
415 %% Macros
416 \AtBeginDocument{\FIRSTPAGE\PDFFIELDS}
417 \AtEndDocument{\vfill}
418 \endinput
419 %%
420 %% End of file 'ejpecp.cls'.
421 %% Macros
422 \AtBeginDocument{\FIRSTPAGE\PDFFIELDS}
423 \AtEndDocument{\vfill}

```

## Change History

v0.5		EJMS/VTEX/ProjectEuclid. . . . .	1
	General: Initial version. . . . .	1	v1.3
v0.57		General: Updated journal URLs and DOI output format . . . . .	1
	General: Improvements, see the README file. . . . .	1	v1.4
v0.577		General: Abstract baselineskip correction . . . . .	1
	General: Improvements, see the README file. . . . .	1	v1.5
v0.5772		General: false configuration for hyperref package . . . . .	1
	General: Improvements, see the README file. . . . .	1	v1.6
v0.57721		General: full url doi, package maintaining and shorttitle info . . . . .	1
	General: Improvements, see the README file. . . . .	1	v1.7
v0.577215		General: merged with production version: fixltx2e removed, natbib setup with afterpackage, etc . . . . .	1
	General: Improvements, see the README file. . . . .	1	v1.8.2
v1.0		General: no. prefix updated and msc2020 . . . . .	1
	General: First stable version, see the README file. . . . .	1	v1.8.3
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	General: Corrected stable version, see the README file. . . . .	1	
v1.2			
	General: Transition to		

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