

# Dummy title

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## Abstract

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- 40 ■ Please try to keep the warnings log as small as possible. Avoid overfull `\hboxes` and any
- 41 kind of warnings/errors with the referenced BibTeX entries.
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### 43 Mandatory metadata macros

44 Please set the values of the metadata macros carefully since the information parsed from  
45 these macros will be passed to publication servers, catalogues and search engines. Avoid  
46 placing macros inside the metadata macros. The following metadata macros/environments  
47 are mandatory:

- 48 ■ `\title` and, in case of long titles, `\titlerunning`.
- 49 ■ `\author`, one for each author, even if two or more authors have the same affiliation.
- 50 ■ `\authorrunning` and `\Copyright` (concatenated author names)
- 51 The `\author` macros and the `\Copyright` macro should contain full author names (espe-
- 52 cially with regard to the first name), while `\authorrunning` should contain abbreviated
- 53 first names.
- 54 ■ `\ccsdesc` (ACM classification, see <https://www.acm.org/publications/class-2012>).
- 55 ■ `\keywords` (a comma-separated list of keywords).
- 56 ■ `\relatedversion` (if there is a related version, typically the “full version”); please make
- 57 sure to provide a persistent URL, e. g., at arXiv.
- 58 ■ `\begin{abstract}...\end{abstract}` .

### 59 Please do not ...

60 Generally speaking, please do not override the `lipics-v2019`-style defaults. To be more  
61 specific, a short checklist also used by Dagstuhl Publishing during the final typesetting is  
62 given below. In case of **non-compliance** with these rules Dagstuhl Publishing will remove  
63 the corresponding parts of L<sup>A</sup>T<sub>E</sub>X code and **replace it with the `lipics-v2019` defaults**.  
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- 75 supported.
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- 77 (The `natbib` package is not supported.)

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79 document “LIPICs: Instructions for Authors and the `lipics-v2019` Class” for all details and  
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82 [lipics-v2019-authors/lipics-v2019-authors-guidelines.pdf](http://drops.dagstuhl.de/styles/lipics-v2019/lipics-v2019-authors/lipics-v2019-authors-guidelines.pdf)

■ **Listing 1** Useless code

```
for i:=maxint to 0 do
begin
  j:=square(root(i));
end;
```

## 2 Lorem ipsum dolor sit amet

Lorem ipsum dolor sit amet, consectetur adipiscing elit [4]. Praesent convallis orci arcu, eu mollis dolor. Aliquam eleifend suscipit lacinia. Maecenas quam mi, porta ut lacinia sed, convallis ac du. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse potenti. Donec eget odio et magna ullamcorper vehicula ut vitae libero. Maecenas lectus nulla, auctor nec varius ac, ultricies et turpis. Pellentesque id ante erat. In hac habitasse platea dictumst. Curabitur a scelerisque odio. Pellentesque elit risus, posuere quis elementum at, pellentesque ut diam. Quisque aliquam libero id mi imperdiet quis convallis turpis eleifend.

► **Lemma 1** (Lorem ipsum). *Vestibulum sodales dolor et du cursus iaculis. Nullam ullamcorper purus vel turpis lobortis eu tempus lorem semper. Proin facilisis gravida rutrum. Etiam sed sollicitudin lorem. Proin pellentesque risus at elit hendrerit pharetra. Integer at turpis varius libero rhoncus fermentum vitae vitae metus.*

**Proof.** Cras purus lorem, pulvinar et fermentum sagittis, suscipit quis magna.

▷ **Claim 2.** content...

Proof. content...

► **Corollary 3** (Curabitur pulvinar, [2]). *Nam liber tempor cum soluta nobis eleifend option congue nihil imperdiet doming id quod mazim placerat facer possim assum. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.*

► **Proposition 4.** *This is a proposition*

Proposition 4 and Proposition 4 ...

## 2.1 Curabitur dictum felis id sapien

Curabitur dictum Corollary 3 felis id sapien Corollary 3 mollis ut venenatis tortor feugiat. Curabitur sed velit diam. Integer aliquam, nunc ac egestas lacinia, nibh est vehicula nibh, ac auctor velit tellus non arcu. Vestibulum lacinia ipsum vitae nisi ultrices eget gravida turpis laoreet. Duis rutrum dapibus ornare. Nulla vehicula vulputate iaculis. Proin a consequat neque. Donec ut rutrum urna. Morbi scelerisque turpis sed elit sagittis eu scelerisque quam condimentum. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Aenean nec faucibus leo. Cras ut nisl odio, non tincidunt lorem. Integer purus ligula, venenatis et convallis lacinia, scelerisque at erat. Fusce risus libero, convallis at fermentum in, dignissim sed sem. Ut dapibus orci vitae nisl viverra nec adipiscing tortor condimentum [1]. Donec non suscipit lorem. Nam sit amet enim vitae nisl accumsan pretium.

117 **2.2 Proin ac fermentum augue**

118 Proin ac fermentum augue. Nullam bibendum enim sollicitudin tellus egestas lacinia euismod  
 119 orci mollis. Nulla facilisi. Vivamus volutpat venenatis sapien, vitae feugiat arcu fringilla ac.  
 120 Mauris sapien tortor, sagittis eget auctor at, vulputate pharetra magna. Sed congue, dui  
 121 nec vulputate convallis, sem nunc adipiscing dui, vel venenatis mauris sem in dui. Praesent  
 122 a pretium quam. Mauris non mauris sit amet eros rutrum aliquam id ut sapien. Nulla  
 123 aliquet fringilla sagittis. Pellentesque eu metus posuere nunc tincidunt dignissim in tempor  
 124 dolor. Nulla cursus aliquet enim. Cras sapien risus, accumsan eu cursus ut, commodo vel  
 125 velit. Praesent aliquet consectetur ligula, vitae iaculis ligula interdum vel. Integer faucibus  
 126 faucibus felis.

- 127 ■ Ut vitae diam augue.
- 128 ■ Integer lacus ante, pellentesque sed sollicitudin et, pulvinar adipiscing sem.
- 129 ■ Maecenas facilisis, leo quis tincidunt egestas, magna ipsum condimentum orci, vitae  
 130 facilisis nibh turpis et elit.

131 ► Remark 5. content...

132 **3 Pellentesque quis tortor**

133 Nec urna malesuada sollicitudin. Nulla facilisi. Vivamus aliquam tempus ligula eget ornare.  
 134 Praesent eget magna ut turpis mattis cursus. Aliquam vel condimentum orci. Nunc congue,  
 135 libero in gravida convallis [3], orci nibh sodales quam, id egestas felis mi nec nisi. Suspendisse  
 136 tincidunt, est ac vestibulum posuere, justo odio bibendum urna, rutrum bibendum dolor sem  
 137 nec tellus.

138 ► **Lemma 6** (Quisque blandit tempus nunc). *Sed interdum nisl pretium non. Mauris sodales  
 139 consequat risus vel consectetur. Aliquam erat volutpat. Nunc sed sapien ligula. Proin faucibus  
 140 sapien luctus nisl feugiat convallis faucibus elit cursus. Nunc vestibulum nunc ac massa  
 141 pretium pharetra. Nulla facilisis turpis id augue venenatis blandit. Cum sociis natoque  
 142 penatibus et magnis dis parturient montes, nascetur ridiculus mus.*

143 Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam  
 144 vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit  
 145 amet neque.

146 **A Morbi eros magna**

147 Morbi eros magna, vestibulum non posuere non, porta eu quam. Maecenas vitae orci risus,  
 148 eget imperdiet mauris. Donec massa mauris, pellentesque vel lobortis eu, molestie ac turpis.  
 149 Sed condimentum convallis dolor, a dignissim est ultrices eu. Donec consectetur volutpat  
 150 eros, et ornare dui ultricies id. Vivamus eu augue eget dolor euismod ultrices et sit amet nisi.  
 151 Vivamus malesuada leo ac leo ullamcorper tempor. Donec justo mi, tempor vitae aliquet non,  
 152 faucibus eu lacus. Donec dictum gravida neque, non porta turpis imperdiet eget. Curabitur  
 153 quis euismod ligula.

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## 165 A Styles of lists, enumerations, and descriptions

166 List of different predefined enumeration styles:

167 ■ `\begin{itemize}...\end{itemize}`

168 ■ ...

169 ■ ...

170 1. `\begin{enumerate}...\end{enumerate}`

171 2. ...

172 3. ...

173 (a) `\begin{alphaenumerate}...\end{alphaenumerate}`

174 (b) ...

175 (c) ...

176 (i) `\begin{romanenumerate}...\end{romanenumerate}`

177 (ii) ...

178 (iii) ...

179 (1) `\begin{bracketenumerate}...\end{bracketenumerate}`

180 (2) ...

181 (3) ...

182 **Description 1** `\begin{description} \item[Description 1] ... \end{description}`

183 **Description 2** Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.

184 Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus

185 massa sit amet neque.

186 **Description 3** ...

## 187 B Theorem-like environments

188 List of different predefined enumeration styles:

189 ► **Theorem 7.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo  
 190 dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus  
 191 massa sit amet neque.*

192 ► **Lemma 8.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.  
 193 Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa  
 194 sit amet neque.*

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195 ► **Corollary 9.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*  
196 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*  
197 *sit amet neque.*

198 ► **Proposition 10.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo*  
199 *dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus*  
200 *massa sit amet neque.*

201 ► **Exercise 11.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo*  
202 *dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus*  
203 *massa sit amet neque.*

204 ► **Definition 12.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo*  
205 *dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus*  
206 *massa sit amet neque.*

207 ► **Example 13.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo*  
208 *dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus*  
209 *massa sit amet neque.*

210 ► **Note 14.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*  
211 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*  
212 *sit amet neque.*

213 ► **Note.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam*  
214 *vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit*  
215 *amet neque.*

216 ► **Remark 15.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*  
217 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*  
218 *sit amet neque.*

219 ► **Remark.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*  
220 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*  
221 *sit amet neque.*

222 ▷ **Claim 16.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*  
223 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*  
224 *sit amet neque.*

225 ▷ **Claim.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*  
226 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*  
227 *sit amet neque.*

228 **Proof.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam*  
229 *vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit*  
230 *amet neque.* ◀

231 **Proof.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam*  
232 *vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit*  
233 *amet neque.* ◀