




Dummy title

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Abstract

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Praesent convallis orci arcu, eu mollis dolor. Aliquam eleifend suscipit lacinia. Maecenas quam mi, porta ut lacinia sed, convallis ac dui. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse potenti.

2012 ACM Subject Classification Replace `ccsdsc` macro with valid one

Keywords and phrases Dummy keyword

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¹ Optional footnote, e.g. to mark corresponding author



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 42 these macros will be passed to publication servers, catalogues and search engines. Avoid
 43 placing macros inside the metadata macros. The following metadata macros/environments
 44 are mandatory:

- 45 ■ `\title` and, in case of long titles, `\titlerunning`.
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- 47 ■ `\authorrunning` and `\Copyright` (concatenated author names)
 48 The `\author` macros and the `\Copyright` macro should contain full author names (espe-
 49 cially with regard to the first name), while `\authorrunning` should contain abbreviated
 50 first names.
- 51 ■ `\ccsdesc` (ACM classification, see <https://www.acm.org/publications/class-2012>).
- 52 ■ `\keywords` (a comma-separated list of keywords).
- 53 ■ `\relatedversion` (if there is a related version, typically the “full version”); please make
 54 sure to provide a persistent URL, e.g., at arXiv.
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 58 specific, a short checklist also used by Dagstuhl Publishing during the final typesetting is
 59 given below. In case of **non-compliance** with these rules Dagstuhl Publishing will remove
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80 **2 Lorem ipsum dolor sit amet**

81 Lorem ipsum dolor sit amet, consectetur adipiscing elit [?]. Praesent convallis orci arcu, eu
 82 mollis dolor. Aliquam eleifend suscipit lacinia. Maecenas quam mi, porta ut lacinia sed,
 83 convallis ac dui. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse potenti.
 84 Donec eget odio et magna ullamcorper vehicula ut vitae libero. Maecenas lectus nulla, auctor

■ **Listing 1** Useless code.

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

85 nec varius ac, ultricies et turpis. Pellentesque id ante erat. In hac habitasse platea dictumst.
86 Curabitur a scelerisque odio. Pellentesque elit risus, posuere quis elementum at, pellentesque
87 ut diam. Quisque aliquam libero id mi imperdiet quis convallis turpis eleifend.

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

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

93 **Just some paragraph within the proof.** Nam liber tempor cum soluta nobis eleifend option
94 congue nihil imperdiet doming id quod mazim placerat facer possim assum. Lorem ipsum
95 dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut
96 laoreet dolore magna aliquam erat volutpat.

97 ▷ **Claim 2.** content...

98 **Proof.** content...

99 1. abc abc abc

100

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

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

106 ?? and ?? ...

107 2.1 Curabitur dictum felis id sapien

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

118 2.2 Proin ac fermentum augue

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

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

132 ► Remark 5. content...

133 3 Pellentesque quis tortor

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

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

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

147 4 Morbi eros magna

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

155 A Styles of lists, enumerations, and descriptions

156 List of different predefined enumeration styles:

```

157 ■ \begin{itemize}...\end{itemize}
158 ■ ...
159 ■ ...

160 1. \begin{enumerate}...\end{enumerate}
161 2. ...
162 3. ...

163 (a) \begin{alphaenumerate}...\end{alphaenumerate}
164 (b) ...
165 (c) ...

166 (i) \begin{romanenumerate}...\end{romanenumerate}
167 (ii) ...
168 (iii) ...

169 (1) \begin{bracketenumerate}...\end{bracketenumerate}
170 (2) ...
171 (3) ...

172 Description 1 \begin{description} \item[Description 1] ... \end{description}
173 Description 2 Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.
174     Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus
175     massa sit amet neque.
176 Description 3 ...
177     ?? and ?? ...

```

178 **B** Theorem-like environments

179 List of different predefined enumeration styles:

```

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

183 ► Lemma 8. 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 massa
185 sit amet neque.

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

189 ► Proposition 10. 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 ► Conjecture 11. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo
193 dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus
194 massa sit amet neque.

```

23:6 Dummy title

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

198 ► **Exercise 13.** *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 ► **Definition 14.** *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 ► **Example 15.** *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 ► **Note 16.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*
208 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*
209 *sit amet neque.*

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

213 ► **Remark 17.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.*
214 *Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa*
215 *sit amet neque.*

216 ► **Remark.** *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 ▷ **Claim 18.** *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.** *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 **Proof.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam*
226 *vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit*
227 *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.* ◀