

Title

Author

Hello world!

► **Theorem 1.** *This is a great result. It has an equation:*

$$\sum_{k=1}^{\infty} \frac{1}{k^2} = \frac{\pi^2}{6} \quad (1)$$

The equation number is (1).

Proof sketch. This is the proof sketch of Theorem 1. ◀

Proof. This is the proof of Theorem 1. ◀

1 Section without Theorems

Since this section does not have any appendix content, it will not appear in the appendix.
[1]

2 Section with Some Appendix Content

► **Example 2.1.** *Examples are numbered within a section.*

Not much in the main text.

Hello appendix!

3 Section with Theorems (long)

► **Theorem 2.** *Another great result.*

Proof sketch. Proof sketch of Theorem 2. ◀

Proof. Proof of Theorem 2.

For some reason, this proof has an inline Lemma:

► **Lemma 3.** *This is the lemma (numbered following the theorem numbering).*

Proof. And this lemma has a proof as well! ◀

This concludes the global proof of Theorem 2. ◀

► **Theorem 4.** *Another great result, without any proof sketch.*

Proof. Proof of Theorem 4. It has two references [2, 1]. ◀

► **Theorem 5.** *A regular theorem, not repeated.*

Proof. This regular theorem is naturally followed with an inline proof. ◀

► **Theorem 6.** *A repeated theorem, but with two proofs, one in Appendix and one in main text.*

Proof. Main text proof of Theorem 6. ◀

Proof. Appendix proof of Theorem 6. ◀



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Leibniz International Proceedings in Informatics

LIPICS Schloss Dagstuhl – Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany

And now for no particular reason, two isolated proofs in the appendix, written in two different ways:

Proof of a non-existing result. First with a regular `proof` environment inside a `toappendix` environment. ◀

Proof. Second, with the specific `appendixproof` environment (but then, cannot change the proof name). ◀

4 Last Section

► **Theorem 7 (with note).** *Another theorem.*

This theorem does not have a proof, but a discussion in the appendix. `apxproof` can figure, because of the `theorem` environment that follows, that the proof of the following theorem is not a proof of this theorem.

► **Theorem 8.** *Last theorem, not repeated.*

Proof. Proof, inlined. ◀

References

- 1 Sergey Brin and Lawrence Page. The anatomy of a large-scale hypertextual Web search engine. *Computer Networks*, 30(1–7):107–117, April 1998.
- 2 sitemaps.org. Sitemaps XML format. <http://www.sitemaps.org/protocol.php>, February 2008.