Your Paper Title Here

Ada Lovelace and Second Author

Abstract. Replace this with your abstract. A good abstract states the problem, what you did, and what you found — in that order, and without citations.

1. Introduction

Start here. Cite things like this [**1**].

The `amsproc` class is the American Mathematical Society's house style for conference proceedings volumes. It supplies the theorem environments, numbering conventions and front matter that AMS expects.

2. Preliminaries

Declare the theorem-like environments you need. AMS classes provide `\newtheorem` with the correct styling already applied.

Definition 2.1. Define your object here.

3. Main result

Theorem 3.1. *State your theorem here. Refer back to it as Theorem* 3.1.

Proof. Give the proof. The environment supplies the closing tombstone automatically. □

Lemma 3.2. *A lemma shares the theorem counter, so it numbers in sequence.*

4. Conclusion

Summarise the contribution and name the next step.

References

1. Donald E. Knuth, *The TEXbook*, Addison-Wesley, Reading, Massachusetts, 1984.

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