

The mystyletau package

Antonello Meccariello & Francesco Meccariello

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1 Introduction

The `mystyletau` package introduces two new custom glyphs for the letter τ . While the standard notation for a topological space (X, τ_X) is functional, the authors believe that these new variants offer a superior aesthetic appeal for denoting topologies or other algebraic structures.

2 Usage

The following commands are provided to access the custom glyphs:

- `\vtau`: $\mathcal{V}\tau$
- `\atau`: $\mathcal{A}\tau$

3 Examples

To appreciate the aesthetic difference, consider the following standard mathematical statements using all the available variants:

1. Let (X, τ_X) be a topological space and let A be a τ_X -open set (i.e., open in τ_X).
2. Let $(X, \mathcal{V}\tau_X)$ be a topological space and let A be a $\mathcal{V}\tau_X$ -open set (i.e., open in $\mathcal{V}\tau_X$).
3. Let $(X, \mathcal{A}\tau_X)$ be a topological space and let A be a $\mathcal{A}\tau_X$ -open set (i.e., open in $\mathcal{A}\tau_X$).

The authors suggest that notations like $(X, \mathcal{V}\tau_X)$, $(X, \mathcal{A}\tau_X)$ provide a more elegant and modern visual impact compared to the standard Computer Modern (X, τ_X) .