A new approach for an enhanced glossary for mathematics: the SMGloM project

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The Semantic Multilingual Glossary of Math (SMGloM) project is a new approach for an enhanced structured glossary of mathematics. The glossary is a collection of mathematical objects.

An entry of SMGloM consists of a module and language bindings, e.g., an English or a German one.

The module definition represents the language-independent part of the glossary entry and contains a name, symbol definitions and its embedding in its mathematical context by explicit presentation of dependencies to other modules. The original definitions of mathematical entities in a specific language are provided in the language bindings.

SMGloM differs from other glossaries by its encoding in 'Semantic TEX', its multilinguality, and its structure allowing, e.g., a machine-understandable interpretation and processing of the mathematical entries of SMGloM. The talk discusses the SMGloM model and its realisation.