

BUILDING DATABASES FOR MATHEMATICAL OBJECTS USING SAGEMATH

GROUP 204

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1 INTRODUCTION

A mathematical object is an abstract object arising in mathematics. In mathematical practice, an object is anything that has been (or could be) formally defined, and with which one may do deductive reasoning and mathematical proofs.

Examples include: numbers, permutations, partitions, matrices, sets, functions, and relations. Categories such as algebra and geometry are simultaneously homes to mathematical objects and are mathematical objects in their own right. A Mathematical Objects Database can be like a museum with all of the best mathematical specimens in an intricate catalog and the connections between them. SageMath is a free open-source mathematics software system licensed under the General Public License. It builds on top of many existing open-source packages, combining their power through a common Python-based language.

1.1 A subsection

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2 PROBLEM STATEMENT

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2.1 A subsection

More text.

3 MAIN OBJECTIVE

Your text goes here.

3.1 SPECIFIC OBJECTIVES

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4 METHODOLOGY

Your text goes here.

4.1 A subsection

More text.

5 REFERENCES

Your text goes here.

5.1 A subsection

More text.