# Mathematical Knowledge Management

- Goal: support collaborative authoring of documents usable for knowledge management
- semantic markup common for documents in mathematics: MathML,
   OpenMath, OMDoc
- layers of knowledge: symbols, statements, theories, documents
- has many applications, but how to acquire the knowledge?
- services to support the authoring workflow

### Example (a simple formula?)

```
<apply>
  <csymbol definitionURL="http://openmath.org/cd/arith1#plus"/>
  <cn type="integer">1</cn>
  <ci>n</ci>
</apply>
```

## <u>Mathematical Knowledge Management Mathematical</u> <u>Knowledge Management</u>

**Hoon Hong, Chee Yap** 

#### Mathematical Knowledge Management Mathematical Knowledge Management:

Mathematical Knowledge Management, 2003 Mathematical Knowledge Management Andrea Asperti, Bruno Buchberger, James Harold Davenport, 2007-10-28 This book constitutes the refereed proceedings of the Second International Conference on Mathematical Knowledge Management MKM 2003 held in Betinoro Italy in February 2003 The 16 revised full papers presented together with an invited paper were carefully reviewed and selected for presentation Among the topics addressed are digitization representation formalization proof assistants distributed libraries of mathematics NAG library LaTeX MathML mathematics markup theorem description query languages for mathematical metadata mathematical information retrieval XML based mathematical knowledge processing semantic Web mathematical content management formalized mathematics repositories theorem proving and proof theory **Mathematical Knowledge Management** Michael Kohlhase, 2006-01-20 This book constitutes the thoroughly refereed post proceedings of the 4th International Conference on Mathematical Knowledge Management The 26 revised full papers presented were carefully selected during two rounds of reviewing and improvement from 38 submissions. The papers cover mathematical knowledge management Topics range from foundations and the representational and document structure aspects of mathematical knowledge over process questions like authoring migration and consistency management by automated theorem proving to applications in e Mathematical Knowledge Management Andrea Asperti, Grzegorz Bancerek, Andrzej learning and case studies Trybulec.2004-09-08 The International Conference on Mathematical Knowledge Management has now reached its third edition creating and establishing an original and stimulating scientific community transversal to many different fields and research topics The broad goal of MKM is the exploration of innovative semantically enriched digital encodings of mathematical information and the study of new services and tools exploiting the machine understandable nature of the information MKM is naturally located in the border area between digital libraries and the mec nization of mathematics devoting a particular interest to the new developments in information technology and fostering their application to the realm of ma ematical information The conference is meant to be a forum for presenting discussing and comparing new tools and systems standardization e orts critical surveys large experiments and case studies At present we are still getting to know each other to understand the work done by other people and the potentialities offered by their work to our own research activity However the conference is rapidly acquiring scientic strength and academic interest attracting more and more people and research groups and offering a challenging alternative to older more conservative conferences July 2004 Andrea Asperti Grzegorz Bancerek Andrzej Trybulec Organization MKM 2004 was organized by the Institute of Computer Science University of Bialystok in co operation with the Faculty of Computer Science Bialystok Technical University and the Association of Mizar Users Program Committee Andrzej Trybulec Chair University of Bialystok Poland Andrew A Adams University of Reading UK Andrea Asperti University of Bologna Italy Bruno Buchberger RISC Linz Austria Roy McCasland

University of Edinburgh UK James Davenport University of Bath UK William M Mathematical Knowledge Management Jonathan Borwein, William M. Farmer, 2006-09-30 This book constitutes the refereed proceedings of the 5th International Conference on Mathematical Knowledge Management MKM 2006 held in Wokingham UK August 2006 The book presents 22 revised full papers Coverage extends to the mathematical knowledge management at the intersection of mathematics computer science library science and scientific publishing The papers are organized in topical sections on proof representations proof processing knowledge extraction knowledge representation as well as systems and tools

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M. Borwein,2006-07-26 Constitutes the proceedings of the 5th International Conference on Mathematical Knowledge Management MKM 2006 held in Wokingham This book includes 22 full papers which cover the whole area of mathematical knowledge management in the intersection of mathematics computer science library science and scientific publishing

<u>Encyclopedia of Knowledge Management</u> Schwartz, David,2005-09-30 This encyclopedia is a research reference work documenting the past present and possible future directions of knowledge management Provided by publisher

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