The Czech Digital Mathematics Library

A brief overview

DML-CZ

Jiří Rákosník, Institute of Mathematics AS CR, Praha
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The project

- Funded by the Academy of Sciences R&D programme *Information Society, 2005–2009, 8,5 MKč (approx. 33 k€ or 41 kUSD)*

- The aims:
  - full-featured user-friendly DL containing relevant maths literature published in the Czech lands
  - archive and source of information for stakeholders
  - possible contribution to the future EuDML or WDML

- The team:
  - Institute of Mathematics AS CR, Praha
  - Institute of Computer Science, Masaryk University, Brno
  - Faculty of Informatics, Masaryk University, Brno
  - Faculty of Mathematics and Physics, Charles University, Praha
  - Library AS CR, Praha

Inspiration

- French projects
  - NUMDAM
  - CEDRAM
- German digitization (Göttingen)
- CEIC recommendations

Content

- 12 journals (*Časopis pro pěstování matematiky* since 1872)
- 6 conference proceedings series
- 87 books
- Collected works of eminent Czech mathematicians
- Currently 31 000 items (articles, chapters)

Characteristic

- Content diversity: maths (>90%), physics, chemistry, astronomy; scientific works, reviews, news, historical, editorials, other

- Multilingualism: 12 languages, titles translated into English

- 77% retrodigitized, 23% born digital (increasing)

- Collected works of eminent Czech mathematicians

- Focused on the "national" production, but from the origin built as future part of global structures

IPR issues

- Subject: original work, digital copy
  - Czech Copyright Act: a digital copy is considered a new original work
- Owner:
  - author
  - publisher and/or distributor
  - administrator/owner of the DL
- freely accessible 98 % (2 % embargoed by moving wall)

Journals, proceedings: DML-CZ ⟷ publisher ⟷ author

Books: DML-CZ ⟷ author (existing rights)

DML-CZ (digital copy) (elapsed rights)

Features

- Simple/advanced search

- MSC

- Key words

- Abstracts for born digital

- Links to Zentralblatt MATH and Mathematical Reviews

- Similarity computation

- Enhancements expected through EuDML

  - interlinking with other DMLs

  - annotations

  - math-aware search (Infty)

Expectations of a global DML effort

- Technical development, inspiration and incentives
- Enhancement through wide interconnection with other sources
- Joining powers for solution to acute problems related to copyright, free access, long-term archiving
- Moral support and strong international basis which would ease gaining local support and sustainability

http://dml.cz

Partner of **εu**DML | *The* **EUROPEAN DIGITAL MATHEMATICS LIBRARY**