

# **EuDML: The European Digital Mathematics Library**

*6ECM panel discussion*

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## Partners

- Instituto Superior Técnico, Computer Science Department, Lisbon – General co-ordinator
- Cellule MathDoc at Université Joseph Fourier, Grenoble – Scientific co-ordinator
- University of Birmingham, School of Computer Science
- Fachinformationszentrum Karlsruhe / Zentralblatt MATH
- Masarykova univerzita Brno, Fakulta Informatiky
- Uniwersytet Warszawski, Interdisciplinary Centre for Mathematical and Computational Modelling
- Instituto de Estudios Documentales sobre Ciencia y Tecnología – IEDCYT, Madrid
- EDP Sciences, Paris
- University of Santiago de Compostela, Institute of Mathematics
- Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences
- Matematický ústav AV ČR
- Ionian University, Department of Informatics, Corfu
- Made Media Ltd, Birmingham
- Centre National de la Recherche Scientifique / Cellule MathDoc, Grenoble

## Content selection

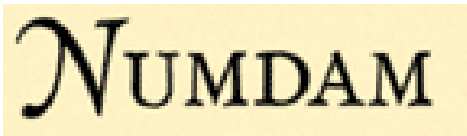
- Partnering institutions selected by the project, contributed collections selected by partnering institutions
- Published mathematical texts validated through standard scientific editorial process
- Items are logical units: journal article, monograph, contribution in proceedings or in edited book, actually a pair (digital full text [PDF], metadata [XML]) archived at partnering institution

## Current content

- 230,000 digital items in 12 collections from Bulgaria, Czech Republic, France, Germany, Greece, Italy, Poland, Portugal, Russia and Spain
- 80,000 links provided by the EuDML between these items
- 11,000 abstracts and 75,000 full-texts indexed
- free access to the full texts in PDF for 97 % of items
- Annales Scientifiques de l'École Normale Supérieure, Annali della Scuola Normale Superiore di Pisa – Classe di Scienze, Bollettino dell'Unione Matematica Italiana, Compositio Mathematica, Czechoslovak Mathematical Journal, Inventiones Mathematicae, Journal für die reine und angewandte Mathematik (Crelle), Mathematische Annalen, Mathematische Zeitschrift, Publications Mathématiques de l'IHÉS, Séminaire Bourbaki, Zeitschrift für Analysis und ihre Anwendungen, ...

## The solution: EuDML

- as pilot implementation with content from 12 European partners



*Publishing partner of the scientific communities*

- Revista Portugalie Math.
- IMI-BAS
- Ελληνική Ψηφιακή Μαθηματική Βιβλιοθήκη (HDML)



bdim: Biblioteca Digitale Italiana di Matematica

Un progetto [SIMAI](#) e [UMI](#)



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## EuDML Prototype Release 1.3 (May 2012)

- Zentralblatt MATH citation reference matching and metadata lookup
- EuDML reference matching
- metadata harvesting, transformation and ingestion
- journal browsing
- fielded search, simple search, and formula search (with MathML or LaTeX encoding)
- similar article suggestion
- To appear in the public website within few months: annotation service; accessible PDF serving & screen reader service (support for dyslexia and visual handicaps); a REST service interface.

**We will deliver**  
**a truly open,**  
**sustainable**  
**and innovative**  
**framework**  
**for access and**  
**exploitation of**  
**Europe's rich**  
**heritage of**  
**mathematics.**

<http://eudml.org>