Mathematical archives for the future

(The Numdam case)

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EuDML roundtable

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JUBILAT

Heritage is our legacy from the past, what we live with today, and what we pass on to future generations.
Our cultural and natural heritage are both irreplaceable sources of life and inspiration. UNESCO

NUMDAM

NUMérisation de Documents Anciens Mathématiques

2002—

Digital library for archiving and access to academic journals

Cellule MathDoc (Univ. J. Fourier & CNRS), Grenoble

Archiving & Preserving

- Metadata: author, title, journal, abstract, ZblMath/MR links, bibliographical references,. . .
- Digitization: scanned images & OCR
- Current (digital) production

Corpus

- 34 journals, 29 seminars, 3 memoir series
- Purely or half academic, mixed models
  - Bulletin Soc. Math. France
  - Annales Scient. ÉNS
  - Compositio Mathematica
  - Philosophia Scientiae
  - Séminaire Bourbaki
- $47\ 000 + 5\ 500 = 52\ 500$ articles, 800 000 pages
- Current published items addition

Other digital archived sources ($\rightarrow$ EuDML)

- Theses, books (Bibliothèque nationale de France),...

Online Delivery & Networking

- Open access, with $N \in [0, +\infty)$ years moving wall
- Search: keywords, text (math formulas?)
- Browsing, Navigation, MathML (semantic web?)
- Included in EuDML (new links, enhanced navigation)

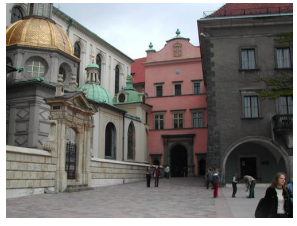
Properties (?)

- A distributed collection of long-standing physical archives
- No long-term economic or legal or technical barriers
- A long-lasting public service (but with current addition)
- No dependance upon viability of any economic agent
- A universal reference mathematical library

NUMDAM

SEMMES

ECM Kraków 2012



EuDML

The EUROPEAN DIGITAL MATHEMATICS LIBRARY

What makes the concept of World Heritage exceptional is its universal application.

World Heritage sites belong to all the peoples of the world, irrespective of the territory on which they are located.

United Nations Educational, Scientific and Cultural Organization