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The Springer Digital Math Library
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In short

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The Springer DML

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Springer DML I

- SpringerLink

  - 2700+ journals, thereof about 175+30 in math+stats
    online versions successively started from 1993 on,
    complete online production from about 2001 on;
    digitized archives for almost all math journals
  - 52000+ books, thereof about 4000 in math+stats (started in 2005)
    digitized archives for selected book series coming up soon
  - 175+ Reference works as frozen ebook editions, thereof 7 in math+stats

- SpringerReference
  175+ Encyclopedias, large handbooks, thereof 7 in mathematics
  Recent Reference Works are continuously updated online, with complete
  archive of earlier versions accessible

Springer DML II

- SpringerImages (includes graphs, tables, sometimes formulas, numerical results, …)
  3.4 Mio+ images, thereof 19000+ math/stats-related

- SpringerVideos
  2 about math

- SpringerOpen: 50+ Open Access journals (Integrated in BioMedCentral Online Platform), thereof 11 in math or including math (such as SpringerPlus or Chinese Science Bulletin)

- Open Access eBooks (just enabled)

Metadata

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Metadata formats / fulltext search

- Journals: internal A++ metadata; output API for automatic generation of exports
  journal archives: metadata in container including also information on the scan
  summer 2012: MARC export possible (Marc21, MarcXML)

- eBooks: internal A++ metadata; MARC, ONIX exports

- Metadata streaming to ZBMath, MathReviews, ISI, google, amazon, etc.; fulltext indexing

- Fulltext search for most journals from 2001; enables in math also formula searches (latexsearch.com)

- Fulltext search for most ebooks from 2005

Metadata issues

- Open Access journals are not marked as such in the metadata (no field) -not a big deal for math as only a few journals are OA

- Additional material (e.g., videos, additional texts, pictures,…) is also not included in the metadata information (no direct linking yet)

- SpringerReference: one metadata set for one entry regardless which version (full history appears when looking at the article)

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Business Models

Springer eBusiness Models

- Annual subscription model: pay for access to 1 copyright year of a single product
(active for all journals, for ZBMath)

- Annual package access model: pay for access to a certain amount of products in 1 copyright year
(active currently for 14 eCollections, for SpringerReference, Protocols, Images…)

  Often combined with time-window access (10+ years)

- Archive package access (one-time purchase)

- SpringerOpen: sponsored (Bulletin) or author (fund) pays

eBusiness issues

- Open Choice: one-time payment for a single article in a journal

- Open Access funding for mathematics ?

- Customer-specific packages/developments
  (e.g., rd.springer.com for industry)

- Hybrid models (Open Access after a certain period of time), active for some journals

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Perspectives / Challenges

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Cooperation perspectives

- Metadata can be provided

- Cross-access to OA products

- Is cross-access to material with paid-only access wanted? Links usually lead to free title/abstract page

Some challenges wrt WDML

- Greater flexibility of e-products:
  - ebooks that can be updated
  - ebooks that are no longer identical to the print version but might contain additional (or even just different) information (the most obvious case are hyperlinks)
  - questionable for journals (Tracking? Reviewing?)
  - Touch-tools want to be touched not only for scrolling or moving to the next page (e.g., touch a graph and get an animation; touch a formula and get to a Wiki entry; touch a formula and get the LaTeX Code for it; etc.)

- Flexibility towards future formats
  - archiving of sources vs archiving of XML-data (what about second ed.'s?)
  - What if pdf is no longer a standard?

- How to deal with google? Users should be led to the WDML site through google…

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Thank you!