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Extension of holomorphic functions defined on non reduced analytic subvarieties
Jean-Pierre Demailly (IF)
Comments: The legacy of Bernhard Riemann after one hundred and fifty years, 2015
Subjects: **Complex Variables (math.CV)**; Algebraic Geometry (math.AG)

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Proof of the Kobayashi conjecture on the hyperbolicity of very general hypersurfaces
Jean-Pierre Demailly (IF)
Comments: This paper supersedes submission hal-01092537 / arXiv:1412.2986
Subjects: **Algebraic Geometry (math.AG)**; Complex Variables (math.CV)

3. **arXiv:1412.2986** [pdf, ps, other]

Towards the Green-Griffiths-Lang conjecture
Jean-Pierre Demailly (IF)
Comments: version 2 has been expanded and improved (15 pages)
Subjects: **Algebraic Geometry (math.AG)**; Complex Variables (math.CV)

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Algebraic embeddings of smooth almost complex structures
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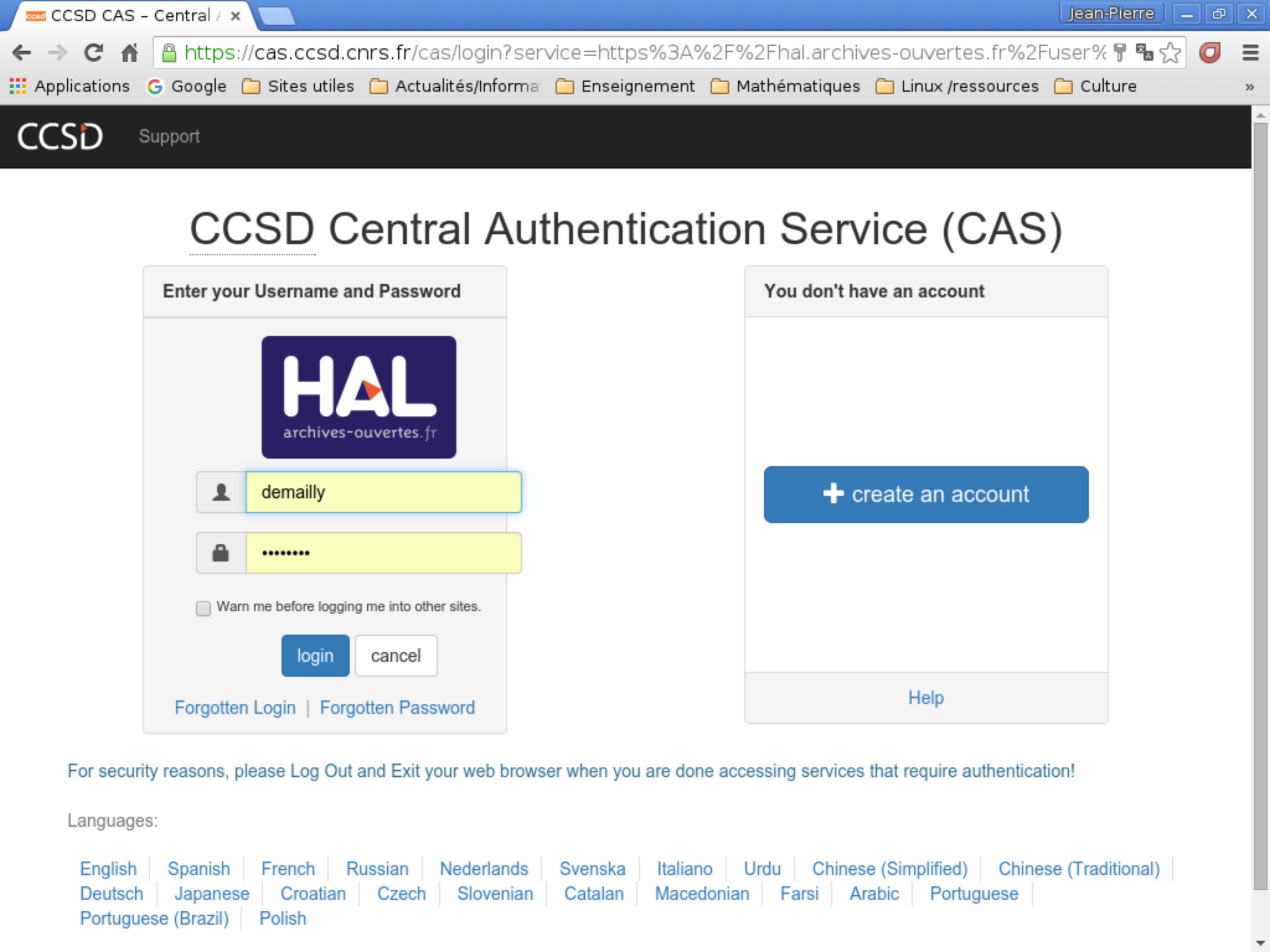**LAST SUBMISSIONS IN HAL**

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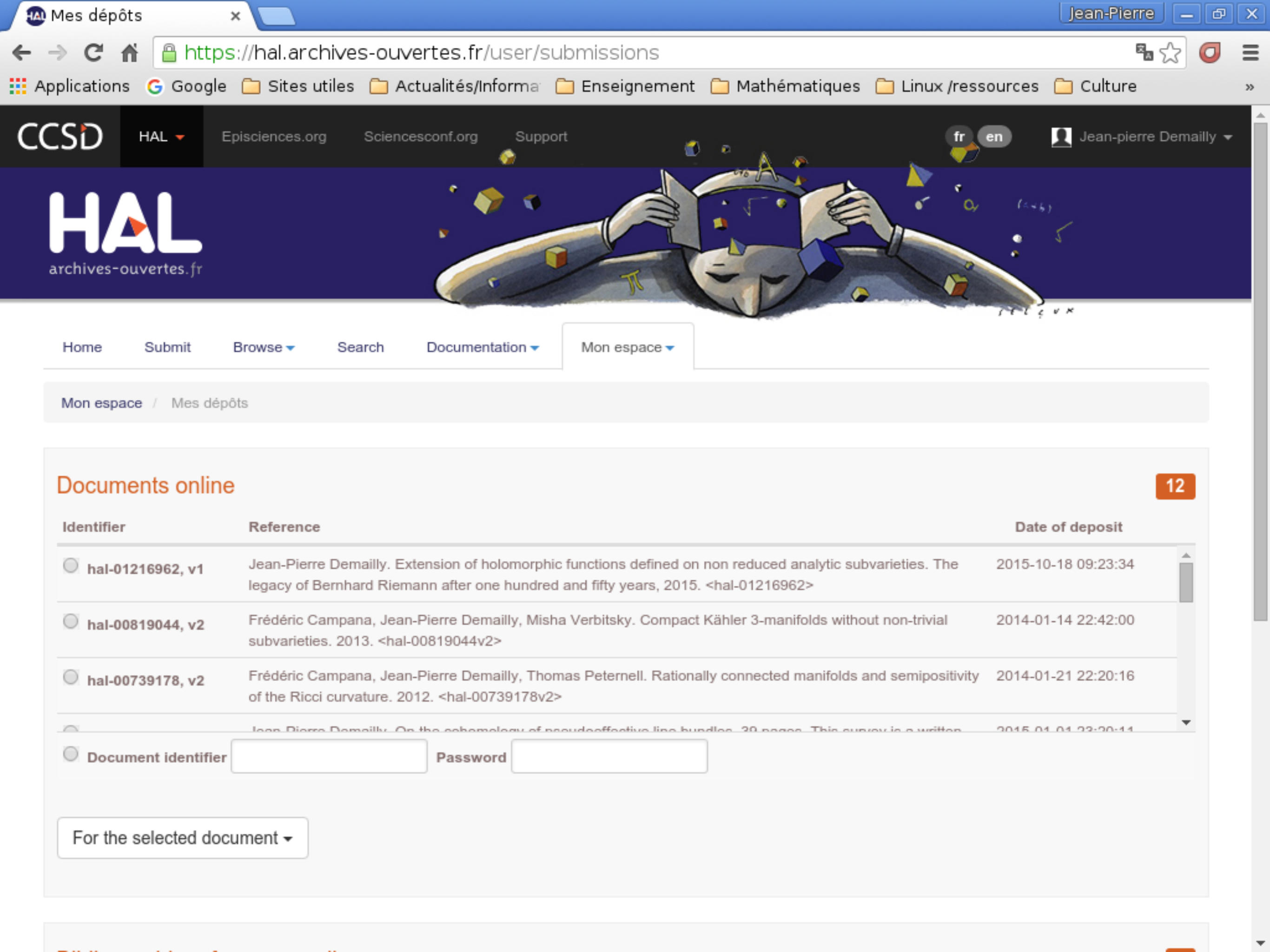
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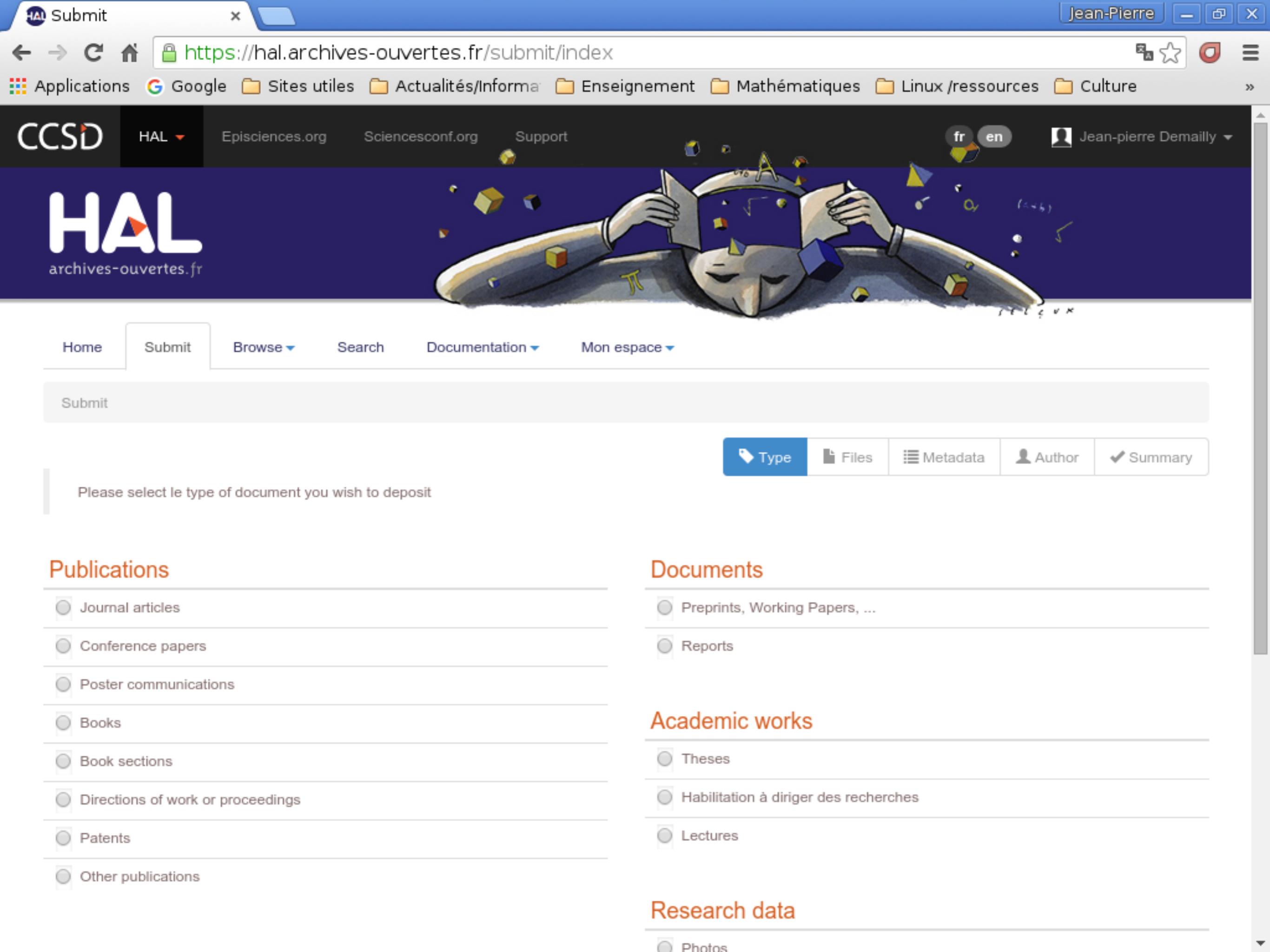
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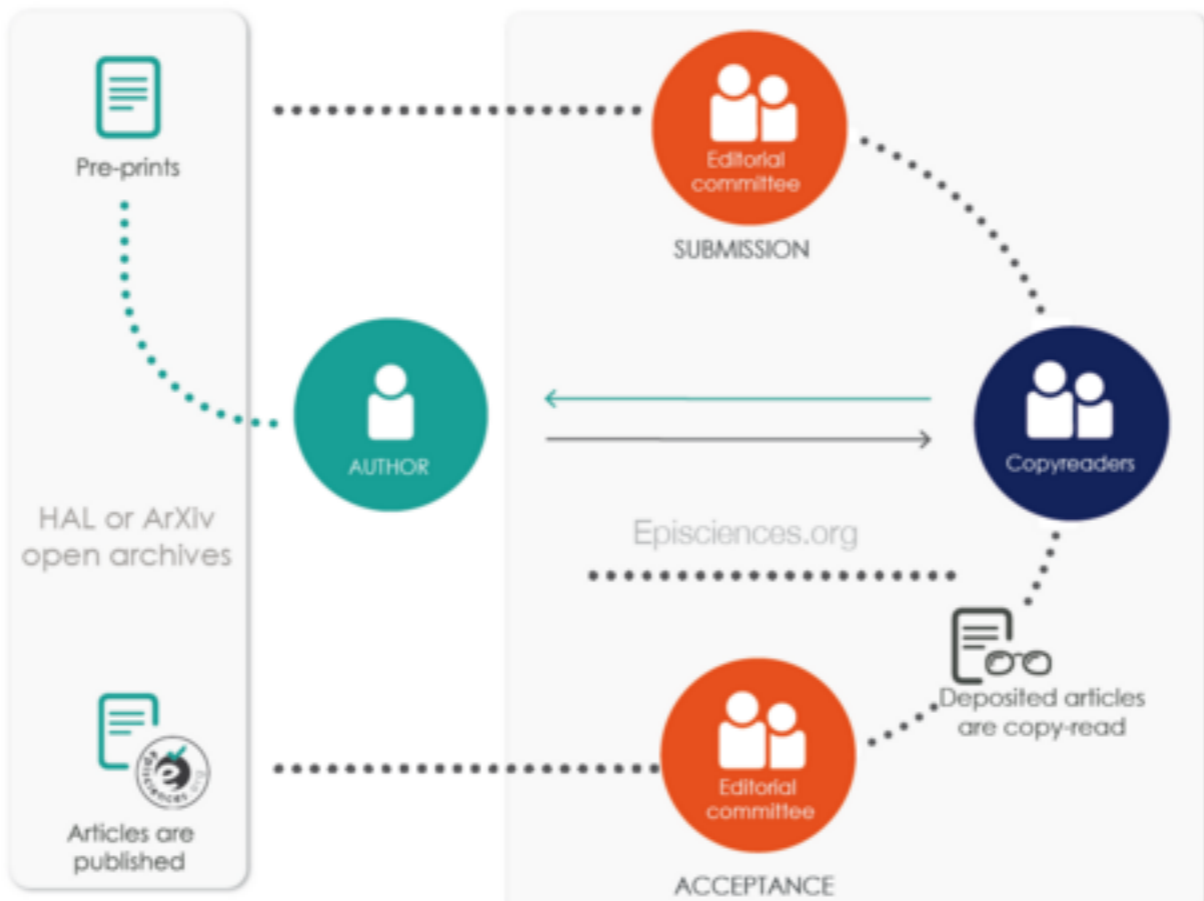
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DMTCS exists since 1997 and is in open access since 1998.
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Episciences IAM: rethinking scholarly publishing in informatics and applied mathematics

> The aim of the thematic community Episciences IAM (Informatics and Applied Mathematics) is to offer a quick dissemination workflow of scientific results, validated and labelled by high quality journals, in the domain of informatics and applied mathematics.

It relies on the technical platform Episciences, which is dedicated to the submission of scientific papers, already deposited and available on open archive repositories such as HAL, arXiv or CWI, to a process of evaluation and peer-reviewing. This environment for electronic published journals (overlay journals) is developed and hosted by the CCSD (a CNRS unit).

The driving force for this project is the take-over of the best journals in the field by the scientific communities, organised in thematic executive committees (so-called epicommittees) gathering international experts.

This project is intended for:

- existing journals wishing to be liberated from a commercial editorial environment or already open-access journals in search of shared support services
- newly created journals looking for a simple and highly visible editing environment

The journals will be selected by an epicommittee (currently being built-up), which ensures the scientific quality, while promoting the creation of new journals in subfields not yet covered. The epicommittee will be charged with the responsibility for, and editorial coherence of, the journal portfolio as well as the corresponding ethical aspects.

Inria took the initiative in launching the Episciences IAM community and aims to build a consortium in coordination with institutions wishing to participate in this project. Collaborations may be financial, in-kind contributions or involve technical assistance (i.e. access to a repository).

Getting in touch:

- IAM community : episciences@inria.fr
- Support : support.iam@episciences.org
- General : contact@episciences.org

Editorial Support:

- Laurent Romary (Scientific Information and Publishing Service Advisor)
- Gaëlle Rivérieux (Scientific Information and Publishing Service Coordinator)
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Epi-Maths

"Episciences-Maths" is a project hosted by the CCSD (Centre pour la Communication Scientifique Directe, a French CNRS unit developing the open archive "HAL"), in collaboration with Institut Fourier (a mathematics research department at Grenoble University, France).

The editorial process envisioned for the Episciences-Maths epijournals is quite standard: authors submit their articles after making them available in arXiv or in HAL, and provide the ID of their e-print to a specified epijournal of their choice. The Editorial board of that epijournal handles the submission exactly as for a traditional scientific journal, appointing referees, and deciding to publish - or not - when the report is received. If the article is accepted after suitable corrections have been made, it is subsequently listed on the web page of the journal as a link to the actual file, the final version of which is stored solely in the open archive. At some point in the future, the Episciences platform might also allow the publication of additional contents attached to each article (review by a reporter or by the editorial boards of epijournals, additional data provided by the author: source codes, lecture notes, presentations ...)

The Episciences-Maths initiative will be supervised by an "Epicommittee" composed of leading mathematicians. Its role is to stimulate the constitution of editorial boards willing to create new epijournals, especially thematic epijournals in areas not yet covered, to manage possible takeovers of existing journals, and finally to treat any ethical and professional issues. Members of the Epicommittee may or may not themselves take responsibility of an epijournal.

The current members of the epi-math committee (as of July 15, 2013) are :

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- Ingrid Daubechies, Department of Mathematics, Duke University, member of CEIC, USA
- James Davenport, Department of Computer Science and Mathematical Sciences, University of Bath, Chair of the CEIC, UK
- Jean-Pierre Demailly, UFR de Mathématiques, Institut Fourier, Université de Grenoble I, France
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Sur l'application des périodes d'une Variation de Structure de Hodge attachée aux familles d'hypersurfaces à singularités simples.

Auteurs : Eyssidieux, Philippe and Mégy, Damien

Let n be a positive even integer and d a positive integer . To every complete family Z of n dimensional degree d hypersurfaces in the projective space with isolated A-D-E singularities we construct according to an idea of Carlson-Toledo a Deligne-Mumford stack $\bar{Z}$ whose moduli space is Z such that the monodromy representation extends. We study the corresponding periods mapping and establish an infinitesimal Torelli theorem along the isosingular strata of IZ $undertransversalityassumptions. WeapplythisresulttoproveSteinessoftheuniversalcoveringspaceof$ \bar Z$.

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