

Petit groupe de travail

"algèbre et arithmétique au tournant du vingtième siècle"

Organisation : Frédéric Brechenmacher et Sébastien Gauthier

Programme :

Monday morning :

Corpus and periodizations .

* Frédéric Brechenmacher ; Sébastien Gauthier. "Analysis of the corpus of algebraic texts published in France from 1870 to 1914"

* Catherine Goldstein : "Networks of texts in number theory"

Tuesday morning :

The teaching of algebra and arithmetic : perspectives from the studies of French, British and American journals

* Sloan Despeaux : "Secondary School Teachers as a "public" for British Mathematical Journals, 1890-1914"

* Caroline Ehrhardt : "Algebra in French journals for the teaching of mathematics in the 19th century"

* Deborah Kent : "Algebra in American journals in the 19th century"

* Jenny Boucard : "Number theory in the Nouvelles annales (1842-1860).

Wednesday morning :

"From groups of texts to collectives of actors : "milieux", "champs", communities, cultures, schools, institutions etc."

* Catherine Goldstein : " The research field of Arithmetic Algebraic Analysis (AAA)"

* Caroline Ehrhardt : "Milieux ; cultures generated by textbooks"

* Frédéric Brechenmacher : "Specific algebraic cultures ?"

* Jenny Boucard : "Number theory before 1850"

* Laura Turner : "On the Scandinavian math. "community" at the turn of the 20th century"

* Arianna Borrelli and Laura Rodriguez : "What is a "theoretical physics community" in the period studied ?"

Thursday morning :

"Algebra, arithmetic and the categories used to characterize some collective organizations of mathematics (disciplines, practices ...)"

* Sébastien Gauthier : "On disciplines"

* François Lê : "The theorem of the 27 lines"

* Christophe Eckes : "Weyl's polyphonic harmony & the unity of mathematics ?"

Friday morning :

Algebra in mathematical physics

* Arianna Borrelli : "Linear thinking" in quantum mechanics : the example of the introduction of "matrices" in quantum theory"

* Laura Rodriguez : "Hilbert's papers on integral equations and their relation to the Hilbert-Courant textbook on "Methods of mathematical physics" (1924)

* Frédéric Brechenmacher : report on some archive researches in D.E. Smith's archives.

* Final discussion