

1065-01-71

Frédéric Brechenmacher* (frederic.brechenmachher@math.cnrs.fr), 72 rue Myrha, 75018, Paris, France. *Circulations of algebraic practices (1870-1940) : networks, communities and disciplines formations, evolutions and connections.*

Between 1870 and 1940, algebra took on various and changing identities depending on the communities, networks and disciplines in which "algebraic practices" were circulating. It is our aim to study how algebra circulated between and interacted with various disciplines which in turn will shed light upon the evolutions of these disciplines as algebra progressively took on a fundamental role in the organization of mathematical knowledge. In order to tackle these issues, this talk will focus on the circulation of certain practices of algebraic manipulations of "forms" between France and the United State. Although prominent algebraists such as Dickson made extensive references to papers published in France, and despite the roles played by algebra in the development of the American mathematical community, our knowledge of these works and authors is still very limited. We thus aim also to highlight some new sources in order to understand how they formed a part of various networks and communities in which these researches circulated. Instead of developing a global approach to the historical questions posed above, this talk will thus be devoted to a few relevant contexts in order to develop some detailed results as well as to highlight some methodological issues and open problems. (Received August 30, 2010)