

Giuseppe Veronese: non-Archimedean numbers and non-Archimedean geometries

vendredi 6 décembre 2024 10:45 (1 heure)

My talk will be divided into two parts: in the first and briefer one, I will explain the non-Archimedean numerical system of infinite and infinitesimal numbers devised by Giuseppe Veronese (1854-1917) in the long Introduction (more than 200 pages) to his monumental *Fondamenti di geometria a più dimensioni e a più specie di unità rettilinee* (1891). Relying on his non-Archimedean numbers Veronese founds the non-Archimedean geometry. He offers a new definition of segment, congruence and rigid movement. He also highlights the concept of multiple of a segment which requires a profound modification of this notion. Granted these basic elements, Veronese edifies a whole system of geometry with peculiar features. Most of my talk will be dedicated to explaining the basic characteristic of Veronese's geometrical system.

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