Bern-Fribourg Graduate Seminar

a seminar for Master and PhD students

Thursday 22$^{\text{nd}}$ September, 2022: 17:15 - 18:00

Room 2.52, Perolles 08, Fribourg

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An introduction to non-standard analysis

Abstract

Nonstandard analysis originated in the early 1960s by the mathematician Abraham Robinson. One of his scope was to formalise the notion of infinitesimal that firstly appeared in the Leibniz's approach to calculus. Since then, non-standard analysis has expanded up to the point that we can refer to "non-standard approach" to mathematical problems.

The seminar starts with a motivation to ultrapower constructions, it will continue by invastigating some properties of hypergroups, in relation with standard concepts in topological groups.