The Moduli Space and Versal Deformations of Algebraic Structures

ALICE FIALOWSKI

Affiliation: Eötvös Loránd University, Institute of Mathematics Pazmany Peter setany 1/C, Budapest, Hungary email: fialowsk@cs.elte.hu

Deforming a given mathematical structure is a tool of fundamental importance in most parts of mathematics, mathematical physics and physics. I plan to introduce the basic notions of algebraic deformation theory, as infinitesimal deformations, rigidity, extensions, formal versal deformations. I will show on an example an interesting use of deformation results: One can describe the moduli space of a certain type of an algebraic structures of a given dimension.