

Representations of $\mathfrak{gl}(n)$

Vyacheslav Futorny - USP - vfutorny@gmail.com

Resumo

Important class of representations of $\mathfrak{gl}(n)$ consists of Gelfand-Tsetlin representations, whose explicit construction is a very difficult problem which is still open at large. Since the discovery of the classical Gelfand-Tsetlin basis for finite dimensional modules there were attempts to extend it to infinite dimensional irreducible modules. We will discuss recent breakthrough results obtained in a joint work with L.E. Ramirez and J.Zhang in this direction.