Seminário de Álgebra

Demushkin Groups.

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30/10/2020
14:30 Horas

Zoom

Abstract.

Demushkin groups are the pro-p groups satisfying the Poincaré duality in dimension 2, and their class includes the pro-p completions of fundamental groups of hyperbolic surfaces and Galois groups of maximal p-extensions of p-adic number fields containing p-roots of unity. Following the recent articles by M. Shusterman, P. Zalesskii and A. Jaikin-Zapirain, it is possible to fully classify which of those groups satisfies pro-p versions of the following properties: $FGIP$(Howson property), LR (local retractions), M. Hall, the Hanna Neumann inequality, L^2-independence and L^2-Hall. This talk will be about those properties in Demushkin groups and their proofs, with a special focus on the last three.