Poster sessions

Section 02: Algebra. Number Theory

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## q-homology of groups

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## ABSTRACT\_

Some properties of the nonabelian tensor product modulo q of two crossed modules introduced by Conduché and Rodríguez-Fernández are established, where q is a positive integer. The notion of q-homology groups of a group G with coefficients in a G-module A is introduced, some its properties and calculations are given. The relationship between q-homology groups and the nonabelian derived functors of tensor product modulo q is studied.

**Keywords:** tensor product modulo q, q-homology of groups, derived functors

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