

# The Nica-Toeplitz algebras of abelian lattice-ordered groups

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The notion of quasi-lattice (nonabelian) ordered groups was introduced by Nica in 1992. Since then several mathematicians (operator algebraists) have been studying the  $C^*$ -algebras corresponding to the semigroup  $C^*$ -dynamical systems associated with such partially ordered groups. The aim of this talk (research) is to show that the Nica-Toeplitz algebra (of abelian lattice ordered groups) introduced by Fowler in 2002 is related to group crossed product  $C^*$ -algebras as full corner. By such relation, we could import many information on the structure of Nica-Toeplitz algebra from the well-established theory of crossed products by groups.