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Congruences of Ankeny-Artin-Chowla type and p -adic class number formula revisited

The purpose of this talk is to interpret results of Jakubec, Jakubec-Lassak, Marko and Jakubec-Marko on congruences of Ankeny-Artin-Chowla type for cyclic totally real fields as an elementary version of the p -adic class number formula modulo powers of p . Explicit formulas for quadratics and cubic fields will be given.