

Abstract

Ring-linear Coding – unde venis? quo vadis?

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Abstract: Ring-linear algebraic coding theory gained importance at the beginning of the nineties, when it was discovered that certain non-linear binary codes of high quality could be understood as linear codes over the ring of integers modulo 4. This talk gives some insight into this amazingly beautiful chapter of applied algebra. We will report on a collection of results from the literature and from our own previous and current research. The talk will finish with open problems and projects for future research.