THE PARTIAL CLONE OF ESSENTIALLY k-ARY TERMS

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ABSTRACT. The concept of a term belongs to the mathematical basic concepts. Terms are defined using individual variables and operation symbols. The complexity of a term can be measured by counting the occurrences of individual variables or of operation symbols in the term. The combination of terms to new terms, i.e. calculation with terms, can be described by certain composition operations defined on sets of terms. This paper shows once more that the calculation with terms and the properties of the algebraic structures which can be defined on the basis of these composition operations depend on the complexity of the considered terms.