

On the number of functionally complete algebras

Jovanka Pantovic, Institute of Mathematics, Faculty of Engineering, University of Novi Sad.

ABSTRACT

In this poster, there are discussed the cardinalities of some functionally complete algebras.

There are finitely many non-equivalent functionally complete algebras on the two element base set. It is determined by Post. Demetrovics and Hannak have proved that there are continuum many non-equivalent functionally complete algebras on at least four element base set. The same number is proved to be on the three element base set by Pantovic , Vojvodic G. and Tasic.

For every at least four element base set the number of inherently non-finitely based functionally complete set is determined by Pantovic and Vojvodic D.

In this poster it is also determined the number of inherently non-finitely based functionally complete algebras on the three element based set.

Keywords: *clones completeness*

Mathematics Subject Classification: *08*

Contact Address: vpant@eunet.yu