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Athena Sparks* (athena.sparks@colorado.edu). *Clonoids into finite target algebras without cube terms*. Preliminary report.

A clonoid is a set of finitary functions from a source set A to a target algebra \mathbf{B} that is closed under taking minors and the operations of \mathbf{B} . Clonoids are generalizations of clones and have been studied in connection to classifying the complexity of Promise Constraint Satisfaction Problems. We have shown that the number of clonoids with a finite source set and finite idempotent algebra of sizes at least two is continuum if and only if the target algebra has no cube term. We investigate the number of clonoids into finite non-idempotent algebras without cube terms. (Received September 16, 2019)