

**Chajda, Ivan**

**Regularity in arithmetical varieties.** (English) Zbl 0573.08004  
[Arch. Math., Brno 20, 177-182 \(1984\)](#).

An algebra is regular if any congruence is uniquely determined by anyone of its congruence classes. The paper gives a Mal'cev condition characterizing both arithmeticity (= *congruence* distributivity and congruence permutability) and regularity in a form different from the conjunction of known Mal'cev conditions for separated properties and which is of special interest in varieties with an associative binary operation or with a special Pixley polynomial.

Reviewer: [J.Duda](#)

**MSC:**

[08B05](#) Equational logic, Mal'tsev conditions  
[08B10](#) Congruence modularity, congruence distributivity

Cited in **2** Documents

**Keywords:**

[Mal'cev condition](#); [arithmeticity](#); [regularity](#); [varieties](#); [Pixley polynomial](#)

**Full Text:** [EuDML](#)