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Ralph N McKenzie* (ralph.n.mckenzie@vanderbilt.edu). *Malcev families of quasivarieties closed under join or Malcev product.*

We show that if \mathcal{K} and \mathcal{L} are quasivarieties of idempotent algebras satisfying P where P is any of the properties next listed, then the Malcev product of \mathcal{K} and \mathcal{L} satisfies P , and therefore the variety generated by $\mathcal{K} \cup \mathcal{L}$ satisfies P . These properties are: “has a Taylor term”, “has a cube term”, “has meet-semi-distributive congruence lattices”, “has semi-distributive congruence lattices”, “has n -permuting congruences, for some integer $n > 1$ ”, “has a non-trivial congruence identity”.

On the other hand, we exhibit examples of finite idempotent algebras \mathbf{A} and \mathbf{B} , each of which generates a variety satisfying Q , while $\mathbf{A} \times \mathbf{B}$ does not, where Q is any one of: “has a Malcev term”, “has Jónsson operations”, “has Day operations”.

These are joint results with Ralph Freese. (Received February 20, 2013)