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Recent work on the finitely based varieties of directed graph algebras. Preliminary report.

Shallon invented a means of deriving algebras from graphs, yielding numerous examples of so-called graph algebras with interesting equational properties. Our subject is directed graph algebras, derived from directed graphs in the same way that Shallon's graph algebras are derived from graphs. We present recent results about finitely based varieties of directed graph algebras, including some new classes of such varieties and progress toward an answer to the question of whether there are directed graph algebra varieties that are nonfinitely based but not inherently nonfinitely based. (Received November 22, 2011)