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## Stable equivalences for perforated Yoneda algebras

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### Abstract

Given a module  $M$  over an algebra  $A$ , we may construct a family of the so-called perforated Yoneda algebras  $E_A^\Phi(X) := \bigoplus_{i \in \Phi} \text{Ext}_A^i(M, M)$  by different choices of admissible subsets  $\Phi$  of  $\mathbb{N}$ , the set of natural numbers. In this talk, we shall present two procedures, induction and restriction, to construct stable equivalences of Morita type for these algebras. In particular, based on self-injective algebras, we can get a family of algebras which have the same dimension, and are pairwise not stably equivalent of Morita type, but all are derived equivalent.