Stable equivalence of Morita type

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It was observed by Rickard that a derived equivalence between two self-injective algebras implies a special kind of stable equivalence, which is called a stable equivalence of Morita type by Broué. Stable equivalences of Morita type occur frequently between block algebras of finite groups and closely connect with Broué's abelian defect conjecture. For general finite dimensional algebras, this notion is still of particular interest. In this talk, we shall introduce a construction of stable equivalences of Morita type for finite dimensional algebras. This is a joint work with Changchang Xi.