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Karoubi's Conjecture for polynomial extensions of stable C*-algebras

In the category of normed R-algebras the notion of K*-stability is introduced, playing the same role as K*-regularity for discrete rings. It is proved that algebraic and topological K-groups are isomorphic for K*-stable normed R-algebras. Consequently Karoubi's Conjecture about the equality of algebraic and toplogical K-theories on the category of stable C*-algebras, confirmed by Suslin and Wodzicki, is extended affirmatively for polynomial extensions of stable C*-algebras. K*-regularity and the fundamental theorem for stable C*-algebras are also obtained.