Eilers, Søren; Restorff, Gunnar; Ruiz, Efren; Sørensen, Adam P. W.

Filtered $K$-theory for graph algebras. (English) [Zbl 1448.19007]

Summary: We introduce filtered algebraic $K$-theory of a ring $R$ relative to a sublattice of ideals. This is done in such a way that filtered algebraic $K$-theory of a Leavitt path algebra relative to the graded ideals is parallel to the gauge invariant filtered $K$-theory for graph algebras. We apply this to verify the Abrams-Tomforde conjecture for a large class of finite graphs.

For the entire collection see [Zbl 1394.00023].

MSC:

19M05 Miscellaneous applications of $K$-theory
16S88 Leavitt path algebras

Full Text: DOI