1078-46-9   **Mark Tomforde***, Department of Mathematics, 651 PGH, University of Houston, Houston, TX 77204-3008. *Classification of graph C*-algebras and the Extension Problem.*

We discuss how K-theory provides complete stable isomorphism invariants for certain classes of nonsimple graph C*-algebras. Moreover, we will show how this invariant can be calculated from data determined by the graph, and describe the range of the invariant. We explain how these results can be used to characterize when an extension of graph C*-algebras is itself a graph C*-algebra. (Received September 04, 2011)