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Continuous trace C^ -algebras with spectrum $[0, 1]$, inductive limits of continuous trace C^* -algebras and their classification*

A classification result will be presented for the class of simple separable C^* -algebras which are inductive limits of continuous trace C^* -algebras with spectrum $[0, 1]$ or finitely many copies of such a space. An important step that will be discussed is the pulling back of the invariant from the inductive limit stage to the finite stage. As will be explained, a new technique is necessary, namely the use of what we call “a gap” interpreted in a suitable sense.

Joint work with George A. Elliott.