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An abstract characterization of the index of a Fredholm operator

The universal enveloping abelian semigroup of the semigroup of Fredholm operators (on an infinite-dimensional Hilbert space) is the group of integers. A similar statement holds (with a similar proof) for the semigroup of Fredholm elements of the multiplier C^* -algebra of an arbitrary stable C^* -algebra (provided that this is assumed to have an approximate unit consisting of projections—presumably just a technical hypothesis). Of course, the group of integers is replaced by a different group in the general case.

This is joint work with Brian Skinner.