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Strict comparison and Z -absorption of nuclear C^ -algebras*

X. Jiang and H. Su constructed a unital separable simple infinite-dimensional nuclear C^* -algebra, called the Jiang-Su algebra, whose K-theoretic invariant is isomorphic to that of the complex numbers. The Jiang-Su algebra has recently become to play a central role in Elliott's classification program for nuclear C^* -algebras. In our research of its structure, we proved that tensorial absorption of the Jiang-Su algebra, strict comparison, and property (SI) are equivalent for any unital separable simple infinite-dimensional nuclear C^* -algebra with finitely many extremal traces. This result provides a partial answer to Toms-Winter's conjecture.