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Title: The Jiang-Su algebra

Abstract: The Jiang-Su algebra plays a central role in the classification program of Elliott. It seems plausible that classification is possible for nuclear simple separable C^* -algebras if one in addition require that the C^* -algebras also tensorially absorb the Jiang-Su algebra; and there are strong results in this direction today. These results have increased our interest in getting a better understanding of the Jiang-Su algebra, and to give more concrete representations of this C^* -algebra. In this talk, which contains results from a joint work with Wilhelm Winter and from a current collaboration with Marius Dadarlat, we present results that characterize the Jiang-Su algebra inside the class of strongly self-absorbing C^* -algebras.