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The symmetric structure of the Cuntz Algebra on two generators

We consider the Cuntz C^* -algebra generated by two isometries whose range spaces are orthogonally complemented. This algebra plays an important role in structure theory, for many spectacular features due to the symmetry of two canonical isometries. In particular, we show that the C^* -algebra is $*$ -isomorphic to both of its fixed point algebra and the crossed product algebra, with respect to the automorphism of interchanging of two generators. This research is a joint work with Frederic Latremoliere of University of Denver.