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**CRISTIAN IVANESCU**, University of Alberta and MacEwan University

*The Cuntz semigroup of tensor product of  $C^*$ -algebras*

In my joint work with Dan Kucerovsky, we study how the Cuntz semigroup of the tensor product,  $A \otimes B$ , relates to the Cuntz semigroup of  $A$  and the Cuntz semigroup of  $B$ . The case  $A = B$  turns out to be already very interesting. A survey of our results will be presented.