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Maximality and symmetry related to the 2-adic ring C-algebra*

The 2-adic ring C*-algebra $\mathcal{Q}_2$ is the universal C*-algebra generated by a unitary and an isometry satisfying certain relations. It contains a canonical copy of the Cuntz algebra $\mathcal{O}_2$, which we denote by the same symbol. In this talk, we explore the maximality of this canonical copy of $\mathcal{O}_2$ inside $\mathcal{Q}_2$, the fixed-point algebra of a periodic *-automorphism σ of $\mathcal{Q}_2$ extending the flip-flop automorphism of $\mathcal{O}_2$, and the relationship between these two notions for $\mathcal{Q}_2$. This is based on joint work with Dilian Yang.