

## **Classifying Extensions of $\mathcal{W} \otimes K$ .**

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The Razak-Jacelon algebra  $\mathcal{W}$  is a certain simple, separable, nuclear, monotracial  $C^*$ -algebra with  $K$ -theory  $(0,0)$ . It can be viewed as a non-unital analogue of the Cuntz algebra  $\mathcal{O}_2$ . I will discuss ongoing work on the classification of various extensions of  $\mathcal{W} \otimes K$ , in particular, that there are exactly 3 extensions of  $\mathcal{W} \otimes K$  by itself.