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*Dilations of  $C^*$ -correspondences*

Motivated from semicrossed products, we revisit dilations of a non-injective  $C^*$ -correspondence to an essential Hilbert bimodule, under the constraint that their corresponding Cuntz-Pimsner algebras are Morita equivalent. We show how this can be achieved by extending the technique of adding tails established by Muhly and Tomforde. Several examples show the necessity for this extension as our technique provides a control on the classes of the tensor algebras and their  $C^*$ -envelopes. For example, using this construction we are able to prove that the  $C^*$ -envelope of a semicrossed product of a dynamical system is Morita equivalent to a crossed product (joint work with E. Katsoulis).