

# BIVARIANT ALGEBRAIC $K$ -THEORY AND LEAVITT PATH ALGEBRAS

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Bivariant algebraic  $K$ -theory,  $kk$ , is an algebraic version, defined for algebras over a commutative ring  $\ell$ , of Kasparov's bivariant  $K$ -theory  $KK$  of  $C^*$ -algebras. In the talk I will review diverse aspects of  $kk$ , its properties, its relation to  $KK$ , its applications to Leavitt path algebras, and some open problems.