

Yuhei Suzuki

Amenable actions on finite simple C^* -algebras arising from flows on pimsner algebras

After brief review of recent progress on amenable actions on simple C^* -algebras, I will explain my new construction of amenable actions on simple stably finite simple C^* -algebras. The desired actions arise as Pimsner algebras of a Hilbert G - C^* -algebra module associated to a family of equivariant $*$ -endomorphisms, and their crossed products by certain quasi-free flows. The classification theorem of KMS weights, which we will establish, therefore plays a fundamental role to confirm stable finiteness of the resulting C^* -algebras. I will end this talk by listing a few concrete outputs of the above general results.