

# Turbulent actions on automorphism groups of $C^*$ -algebras

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After recalling the notion of turbulent action of a Polish group on a Polish space, I will present some results of Dadarlat and Winter on strongly self-absorbing  $C^*$ -algebras that imply that, for this class of  $C^*$ -algebras, the natural action of the unitary group on the automorphism group via inner automorphisms is turbulent. It is an open problem to determine if the same holds for the action of the automorphism group on itself by conjugation.