

# SEMINARIUM UKŁADY DYNAMICZNE

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Tytuł: **On automorphisms of Enriques surfaces and their entropy**  
Referent: **Sławomir Rams**  
Data: **19 I 2018**

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Consider an arbitrary automorphism of an Enriques surface with its lift to the covering  $K3$  surface. We prove a bound of the order of the lift acting on the anti-invariant cohomology sublattice of the Enriques involution. We use it to obtain some mod 2 constraint on the original automorphism. As an application, we give a necessary condition for Salem numbers to be dynamical degrees on Enriques surfaces and obtain a new lower bound on the minimal value (joint work with Y. Matsumoto (Nagoya) and H. Ohashi (Tokyo)).