THE UNIVERSAL MINIMAL FLOW OF THE GROUP OF AUTOMORPHISMS OF $\mathcal{P}(\omega_1)/\mathrm{fin}$

DANA BARTOŠOVÁ

We compute the universal minimal flow of the group of automorphisms of the Boolean algebra $\mathcal{P}(\omega_1)/\mathrm{fin}$ when it is not isomorphic with $\mathcal{P}(\omega)/\mathrm{fin}$. In order to do that, we prove the Ramsey property for the class of finite Boolean algebras with ideals. We obtain further applications to the dynamics of groups of homeomorphisms of Cantor cubes. The universal minimal flow of the group of automorphisms of $\mathcal{P}(\omega_1)/\mathrm{fin}$ when it is isomorphic with $\mathcal{P}(\omega)/\mathrm{fin}$ was computed by Glasner and Gutman.