LIONEL NGUYEN VAN THÉ, University of Calgary, 2500 University Drive NW, Calgary, Alberta, T2N 1N4

The universal minimal flows of $S(2)$ and $S(3)$

For a topological group G, a compact minimal G-flow is a compact Hausdorff space X together with a continuous action of G on X for which the orbit of every point is dense in X. It is a general result in topological dynamics that every Hausdorff topological group G has a compact minimal G-flow $M(G)$ which is, moreover, universal, in the sense that it can be mapped homomorphically onto any other compact minimal G-flow. The purpose of this talk is to show how an extension of a theorem by Kechris, Pestov and Todorcevic allows to compute the universal minimal flows of two particular groups: the automorphism groups (equipped with the pointwise convergence topology) of the dense local order $S(2)$ and of the circular directed graph $S(3)$.