

# SEMINARIUM UKŁADY DYNAMICZNE

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Tytuł: **2-dimensional Conley index and applications**  
Referent: **Hector Barge**  
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The aim of this talk is to give a method to compute the Conley index of an isolated invariant continuum  $K$  of a flow on a surface using only the topology of  $K$  and some knowledge about its unstable manifold. To do this we will show the existence of a special kind of isolating blocks, the so-called regular isolating blocks whose topology is related to the topology of  $K$ . Besides we will see some applications such as the classification of those isolated invariant continua without fixed points or a complete study its continuations.