



SEMINARIUM MATEMATYKA DYSKRETNA

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THE PERMUTATION TOPOLOGY AND ALMOST DISTINGUISHING COLOURINGS

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The topology of pointwise convergence is perhaps the most natural way to endow a group acting on a topological space with a topology.

In the case where a group acts on a finite or countable set S , it is usually implicitly assumed that S carries the discrete topology (i.e. all sets are open). The resulting topology is called the permutation topology.

In this short course we will introduce the permutation topology by means of a metric. We will derive some of its topological properties and use them to study distinguishing properties of random colourings of the set S .