SEMINARIUM

MATEMATYKA DYSKRETNA

wtorek, 19 października 2024 r., godz. 12:30, s. 612 C7

A survey of automorphism breaking of graphs by vertex colorings

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The talk presents main results in automorphism breaking of finite and infinite graphs by vertex colorings from the very beginnings.

Topics treated will be the role of motion, that is, the minimum number of vertices moved by each non-identity automorphisms, the distinguishing cost, that is the minimum number of vertices one has to color in order to break all automorphisms, and the distinguishing density, that is, the minimal proportion of these colored vertices.

Moreover, many of open problems will be presented.