

wtorek, 9 stycznia 2024 r., godz. 12:30, s. 612 C
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Locally irregular colorings of powers of cycles

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A graph G is called locally irregular if every two adjacent vertices in G have different degrees. An edge coloring (not necessarily proper) of a graph H is locally irregular if all color classes induce locally irregular subgraphs of H. We give a proof that the k-th power of a cycle admits a locally irregular edge 2-coloring (i.e., it can be partitioned into two locally irregular subgraphs) whenever it is different from a complete graph. This is joint work with Igor Grzelec, Tomáš Madaras and Roman Soták.