
Discrete Analysis Seminar

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LSE

Separating the edges of a graph by a linear number of paths

Recently, Letzter proved that any graph of order n contains a collection P of $O(n \log^* n)$ paths with the following property: for all distinct edges e and f there exists a path in P which contains e but not f . We improve this upper bound to $19n$, thus answering a question of Katona and confirming a conjecture independently posed by Balogh, Csaba, Martin, and Pluhar and by Falgas-Ravry, Kittipassorn, Korandi, Letzter, and Narayanan.

Our proof is elementary and self-contained.

Date: 26th April, 2023

Time: 4:00pm - 5:00pm

Location: 262, Science Building



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