# Majority edge-colourings of finite and infinite graphs 

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A colouring of edges of a graph $G$ is a majority colouring, if for every vertex $v$ of $G$, at most half the edges incident with $v$ have the same colour. This concept was recently introduced in [1] where, among others, we proved that every finite graph without pendant vertices admits a majority 4 -edge colouring. Moreover, if the minimum degree of $G$ is at least 4 , then $G$ admits a majority 3 -edge colouring. In the talk, the list version of the problem will be investigated, also for infinite graphs.

## References

[1] F. Bock, R. Kalinowski, J. Pardey, M. Pilśniak, D. Rautenbach, and M. Woźniak, Majority Edge-Colorings of Graphs, Electron. J. Combin. 30(1) 2023 \#P1.42.

