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Cops and robbers in graphs of bounded degree

We prove that one can effectively reduce the maximum degree of a graph so that the cop number of the resulting graph does not go down. As a consequence we show that, for every $\varepsilon > 0$ and every n_0 , there exists a connected cubic graph of order $n \geq n_0$, whose cop number is at least $n^{1/2-\varepsilon}$.

This is joint work with Sebastián González Hermosillo de la Maza and Seyyed Aliasghar Hosseini.