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Anthony Bonato*, Department of Mathematics, Toronto, Ontario , Canada. *Conjectures on Cops and Robbers.*

The game of Cops and Robbers played on graphs gives rise to a rich set of conjectures, mainly associated with the cop number of a graph. Arguably the most important such conjecture is Meyniel's, which posits an $O(\sqrt{n})$ upper bound on the cop number of a connected graph of order n . We discuss the state-of-the-art on Meyniel's conjecture, and explore other conjectures on cop number ranging from topics within computational, probabilistic, and topological graph theory. (Received August 27, 2013)