**A Variation of Cops and Robbers on a Graph**

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 We consider a variation of cops and robbers on a graph where the cop seeks to determine the location of an invisible robber moving around vertices of a graph. On the cop's turn, she probes a set of vertices in the graph and receives the distance from each probed vertex to the robber. On the robber's turn, he is allowed to move to an adjacent vertex unless it was just probed by the cop. The robber is successful if the cop is never able to determine his location.

 In this talk, we will further introduce cops and robbers on a graph by discussing motivating questions for this research and existing results in the literature. We will also present a strategy that locates the robber on the Grötszch graph in three turns.