Gallai-Ramsey numbers for some graphs with chromatic number three

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A Gallai coloring of a complete graph is an edge-coloring such that no triangle has all its edges colored differently. A Gallai $k$-coloring is a Gallai coloring that uses $k$ colors. Given a graph $H$ and an integer $k \geq 1$, the Gallai-Ramsey number $GR_k(H)$ is defined to be the minimum integer $n$ such that every $k$-coloring of the edges of $K_n$ contains a monochromatic copy of $H$. In this talk, I will present our recent results on Gallai-Ramsey numbers for some graphs with chromatic number three such as $\hat{K}_m$ for $m \geq 2$, where $\hat{K}_m$ is a kipas with $m + 1$ vertices obtained from the join of $K_1$ and $P_m$, and a class of graphs with five vertices.

Keywords: Gallai coloring, Gallai-Ramsey number, Ramsey number