Guangzhou Discrete Mathematics Seminar

Size Ramsey numbers of forests versus double stars and brooms

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For finite, simple graphs F, G and H, we write $F \to (G, H)$ to denote that, for every 2-coloring of the edges of F, there exists a monochromatic subgraph isomorphic to G or H. The *size Ramsey number* $\hat{r}(G, H)$ of two graphs G and H, introduced by Erdős, Faudree, Rousseau and Schelp in 1978, is defined as $\hat{r}(G, H) = \min\{e(F) : F \to (G, H)\}$. A *double star* is a graph with two disjoint stars and an edge connecting their centers, and a *broom* is a graph which is a path with a star at one end. In this talk, I will present some exact values and bounds of the size Ramsey numbers of forests versus double stars and brooms.

Joint work with Yaping Mao, Ingo Schiermeyer and Ning Song.

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