graphs.
A 2-factor-plus-triangles graph is the union of two 2-regular graphs $G_{1}$ and $G_{2}$ with the same vertices, such that $G_{2}$ consists of disjoint triangles. Let $\mathcal{G}$ be the family of such graphs. These include the famous "cycle-plus-triangles" graphs shown to be 3 -choosable by Fleischner and Stiebitz. In this talk, we explore the independence ratio of graphs in $\mathcal{G}$. The independence ratio of a graph in $\mathcal{G}$ may be less than $1 / 3$, but achieving the minimum value $1 / 4$ requires each component to be isomorphic to a single 12 -vertex graph. We present constructions to show that (1) $\mathcal{G}$ contains infinitely many connected graphs with independence ratio less than $4 / 15$; and (2) for each odd $g$ there are infinitely many connected graphs in $\mathcal{G}$ such that $G_{1}$ has girth $g$ and the independence ratio of $G$ is less than $1 / 3$. (Received January 23, 2009)

