

Mekhia Kouider

ON f -FACTORS

Let $f : X \rightarrow \mathbb{N}$ be an integer function on the set X . An f -factor of the graph $G = (X, E)$ is a spanning subgraph of G whose vertices have degrees defined by f . If $f \equiv 2$, we have a 2-factor. A family of vertex-disjoint cycles of G will be called a pseudo 2-factor. We present in this talk some sufficient conditions for the existence of an f -factor; these conditions involve the stability number, the minimum degree, or the connectivity of the graph.

On the other side, we shall speak about the complement of a maximum pseudo 2-factor.

This is joint work with Siham Bekkai.