
GABRIELA ARAUJO-PARDO, Mathematics Institute, National University of México

The achromatic number of Kneser Graphs and their relationship with Steiner Triple Systems

In this talk we give the notion of complete colorings in graphs, achromatic number, Kneser Graphs and Steiner Triple Systems. Also, we explain how the Steiner triple systems solve the problem about the existence of complete colorations on Kneser graphs that attain the upper bound of the achromatic number, where the achromatic number of a graph G is the maximum integer value for the number of chromatic classes in a complete and proper coloring of G .