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AGCO Seminar

Speaker: Denae Ventura, UNAM, México

Title**:** Recursive local amoeba construction.

Abstract: Amoeba graphs were born as examples of balanceable graphs, which are graphs that appear in any 2-edge coloring of the edges of a large enough K_n with a sufficient amount of red and blue edges. As they were studied further, interesting aspects were found.

An edge replacement $e\to e$ in a labeled graph G means to take an edge e in E(G) and replace it with e' \in E(\overline{G})\cup \{e\}$. If $G-e+e'$ is isomorphic to G then we say $e\to e'$ is a \emph{feasible edge replacement}. Every edge replacement yields a set of permutations of the labels in G. The set of all permutations associated with all feasible edge replacements in G generates the group Γ_G. A labeled graph G of order n is a \emph{local amoeba} if $\Gamma_G \cong S_n$. One might think local amoebas are hard to find. However, in this talk we will go over a recursive construction of infinite families of local amoebas.

Es trabajo conjunto con Ludmila Matyskova.

When**:** September 28, **15:00 hrs.**

.***Where*****:** Sala de Seminario John Von Neuman, CMM, Beauchef 851, Torre Norte.