

SEMINÁRIO

5 de Setembro de 2008

(Departamento de Matemática, sala Sousa Pinto, 11:30-12:30)

Título: A Characterization of Singular Graphs.

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Resumo: A graph G is singular of nullity $\eta(G) \geq 1$, if the dimension of the nullspace $\ker(\mathbf{A})$ of its adjacency matrix \mathbf{A} is $\eta(G)$. Singular graphs model various scientific situations, molecular structures and networks, in particular. We look at the substructures that make a graph singular and present characterizing criteria, both algebraic and geometric.

Keywords: adjacency matrix, eigenvalues, singular graphs, core, periphery, singular configuration, minimal configuration.

Ciclo de Seminários do CEOC