



DEPARTAMENTO
DE MATEMÁTICA
TÉCNICO LISBOA

COLLOQUIUM DE MATEMÁTICA

Sums and products of equivalence orbits

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Similarity and equivalence of matrices over fields are well-understood relations, and that understanding is elementary, specially in the case of equivalence. For matrices over rings – e.g. the integers – the situation is different. Equivalence is still simple and its study leads to the concept of invariant factors of a matrix. About these, several interesting basic questions can be raised. This talk will address two of those questions: how do invariant factors behave under matrix addition and multiplication? Some things are known about these problems, and the second one – already completely solved for certain classes of rings – has deep relations with other parts of mathematics.

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Instituto Superior Técnico, Campus Alameda
Complexo Interdisciplinar
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