



Coloquio Inst-Mat
Instituto de Matemáticas
Universidad de Talca
Campus Lircay S/N, Talca-Chile

On representation theory of quadratic forms.

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Abstract

The 11th problem, among the famous 23 problems of Hilbert, asks to determine, for two quadratic forms given, whether one represents the other. In the core of this problem lies the Local-Global Principle. In this survey talk, recent developments on the principle are to be introduced.

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