



## Colloquium Guido Castelnuovo

**Martedì 29 Ottobre 2019**

Ore 16:30 - 17:30

# Theta invariants of Euclidean lattices

Euclidean lattices have been studied for a long time, because of their role in crystallography and in arithmetics. More recently, they have also been studied in computer science, because of their application to cryptography. During the last decades, new invariants of Euclidean lattices defined in terms of the associated theta series have become increasingly important to investigate them from these diverse perspectives. In this talk, I will give a gentle introduction to the theory of Euclidean lattices, and try to explain the significance of their theta invariants from various points of view.

oratore

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