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LOW 101

Geometric applications of class field theory
Reinier Bröker from Brown University

One of the major developments in number theory during the 20th century is the invention of class field theory. In this talk we will recall some highlights of this theory, and explain how to apply it to solve geometric problems. In particular, we will show how to efficiently compute isogenies between elliptic curves and how to construct elliptic curves of prescribed order. Many examples will be given.

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