Solving Diophantine Equations via Modular Curves

Ekin Ozman

Bogazici Universitesi, Istanbul, Turkiye
`ekin.ozman@boun.edu.tr`

Solving Diophantine equations is one of biggest problems in number theory. In this talk we will introduce modular curves, a main object in number theory and arithmetic geometry and see how they are used to solve some famous Diophantine equations such as Fermat equation.

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