

Congruent Number Problem.

Somnath Jha, Department of Mathematics and Statistics, IIT Kanpur

Abstract: A positive integer is a congruent number if it is the area of a right-angled triangle with rational sides. We will unfold the story of classifying congruent numbers which go back a 1000 years (and is still unsolved !). We will connect it to elliptic curves.

Pre-requisites :

No background assumed, but familiarity with elliptic curves will be helpful for the last part.