Congruent Number Problem

Ye Tian

Chinese Academy of Sciences

Abstract

Recall that a positive integer is called a congruent number if it is the area of a right triangle with rational sides. The congruent number problem is to determine if a given positive integer is congruent or not. In this talk, we introduce some progress on the old problem and explain its relation to the Birch and Swinnerton-Dyer conjecture.