UCD School of Mathematics and Statistics

Colloquium Seminar

Title: How solvable is the negative Pell equation?

Speaker: Professor PETER STEVENHAGEN (Universiteit Leiden)

Date: Thu 28th March 2024 at 2:00PM

Location: E0.32 (beside Pi restaurant)

Abstract: Solving the Pell equation $x^2 - dy^2 = 1 in positive integers x and y is a challenge that, starting w$
$dy^2 = -1. Unlike the original equation, which admits infinitely many solutions for all non-$
$square integers d > 0, the negative Pell equation is solvable for a much smaller, but still infinite subset o$