

Online Number Theory Seminar

11 April 2025. – 17:00-17:50

J. Kollar: The Mordell-Schinzal conjecture for cubic diophantine equations

Mordell (1952) and Schinzal (2015) studied the diophantine equations $xyz = G(x, y)$, and proved that there are infinitely many solutions in most cases. We show that in the cases left open by Schinzal, the automorphism group is infinite. This allows us to settle all cases when G has degree 3. (Joint work with Jennifer Li.)