

Speaker: Umberto Zannier

Talk: Some S-unit equations, especially describing perfect powers with few nonzero (binary) digits

Abstract: As a central example in this talk, we shall discuss a recent result (obtained jointly with P. Corvaja) asserting the finiteness of odd perfect powers with four nonzero binary digits. The investigation was motivated mainly by a question of D. Ghioca and T. Scanlon in the context of the Dynamical Mordell-Lang Conjecture. We shall frame this kind of issue in the more general context of S-unit equations, and shall recall several related results.