Classical diophantine problems via Galois representations and modular forms

Michael Bennett (`bennett@math.ubc.ca`)
University of British Columbia
Department of Mathematics
Vancouver, B.C V6T 1Z2
Canada

Abstract. We'll discuss applications of recent work on ternary Diophantine equations, based on techniques from the theory of Galois representations and modular forms, to a variety of classical Diophantine problems. Much of this is joint work with Chris Skinner and Soroosh Yazdani.