

Compatible systems of morphisms and rigidity

Chandrashekhara Khare (shekhar@math.utah.edu)

University of Utah

Department of Mathematics

150 S 1400 E

Salt Lake City, UT 84112

USA

Abstract. Given a homomorphism of the group of rational points of an abelian variety defined over the rationals that preserves the kernel of the reduction map mod p for almost all primes p , we can ask if the homomorphism is induced by an algebraic map. I will address this and other related questions about compatible systems of mod p Galois representations in the talk.

