CORRESPONDENCES BETWEEN K3 SURFACES

ABSTRACT. In this talk we show that there is a correspondence between some K3 surfaces with non-isometric transcendental lattices constructed as a twist of the transcendental lattice of the Jacobian of a generic genus 2 curve. Moreover, we show the existence of a correspondence between a general K3 surface with $\rho=17$ and a Kummer surface having transcendental lattices **Q**-Hodge isomorphic. This reports a joint work with Giuseppe Lombardo and a geometric example due to Igor Dolgachev.