

Ariel Martin Pacetti. **On the paramodular conjecture**

The paramodular conjecture is a generalization of the Shimura-Taniyama conjecture for elliptic curves to abelian surfaces over \mathbb{Q} without rational endomorphisms. In this talk we will explain the conjecture, mention its relation to modularity of elliptic curves over quadratic fields, and prove some cases of it. If time allows, we will show a Bianchi newform with rational eigenvalues which is attached to an abelian surface over $\mathbb{Q}(\sqrt{-7})$ (and explain its relation with the conjecture).