Title: Automorphic type Bloch-Kato conjecture for Siegel modular forms of genus 2

Abstract: The Bloch-Kato conjecture relates the special L-values and Selmer groups of motives. In this talk, I will state a variant of this conjecture for holomorphic modular form $f$ on $\text{GSp}(4)$ and then sketch the idea of the proof of it. More precisely, we equate the special value at 1 of the standard L-function of the modular form $f$ twisted by a quadratic character $\phi$ on the one hand, and the characteristic ideal of the Selmer group of the standard-adic Galois representation associated to $f$ twisted by $\phi$ on the other hand. The proof is based on a $p$-integral theta correspondence between $\text{GSp}(4)$ and $\text{U}(4)$, the Rallis inner product formula and modularity lifting results on these two groups.