

Department of Mathematics, BGU

AGNT

On *Wednesday, December ,11 2019*

At *15:00 – 16:15*

In *101-*

Ariel Weiss (HUJI)

will talk about

Irreducibility of Galois representations associated to low weight Siegel modular forms

Abstract: If f is a cuspidal modular eigenform of weight $k > 1$, Ribet proved that its associated p -adic Galois representation is irreducible for all primes. More generally, it is conjectured that the p -adic Galois representations associated to cuspidal automorphic representations of $GL(n)$ should always be irreducible.

In this talk, I will prove a version of this conjecture for *low weight, genus 2 Siegel modular forms*. These two-dimensional analogues of weight 1 modular forms are, conjecturally, the automorphic objects that correspond to abelian surfaces.