The Trivial Notions Seminar
Proudly Announces

Modular forms and Galois representations

A talk by
Nicolas Ojeda Bar

Abstract

A goal in number theory is to understand the finite extensions of $\mathbf{Q}$. By Galois theory, it is equivalent to understand the absolute Galois group $\mathrm{Gal}(\overline{\mathbf{Q}}/\mathbf{Q})$. In order to understand this group, it is natural to try to understand its representations. In this expository talk I will present a beautiful classical construction of degree two Galois representations starting from a modular form (a particular kind of holomorphic functions defined on the upper half plane).

Thursday September 23$^{\mathrm{rd}}$, at 3:00 pm
Science Center 507