

# WYKŁAD WYDZIAŁOWY

w ramach seminarium

## ARYTMETYCZNA GEOMETRIA ALGEBRAICZNA

(organizatorzy: Grzegorz Banaszak, Piotr Krasoń)

Czwartek **20 lipca 2017**, godz. **12:00**, sala **A1-33**

Wydział Matematyki i Informatyki UAM w Poznaniu

prof. Krzysztof Kłosin

CUNY USA

### *Deformations of Galois representations and the Paramodularity Conjecture*

#### **Abstract:**

The Paramodularity Conjecture, which can be seen as a refinement of Yoshida Conjecture, postulates the existence of a one-to-one correspondence between certain abelian surfaces over the rationals and certain Siegel modular forms. Currently, except in some degenerate cases, no results towards the conjecture are known. In this talk I will present a new approach to the problem based on proving modularity of residually reducible Galois representations ‘of Saito-Kurokawa type’. This is joint work with T. Berger (Sheffield University)