

## **Corso di Dottorato a.a. 2019-2020**

### **Tamás Szamuely "*Etale cohomology and the Weil conjectures*"**

**Periodo: 1° semestre a.a. 2019-2020**

**Durata: n. 24 ore**

#### **Deascrizione**

Arguably one of the pinnacles of 20th century mathematics was Deligne's proof of the Weil conjecture establishing an analogue of the Riemann Hypothesis for the zeta function of a smooth projective variety over a finite field. We shall explain Deligne's proof as well as some related results and recent developments. This course addresses those having already some background in étale cohomology (for example, having followed the recent introductory class of Lombardo and Maffei) and/or willing to accept some of its basic properties. In any case, these will be reviewed at the beginning of the class.