

INSTITUTUL DE MATEMATICĂ “SIMION STOILOW” AL ACADEMIEI ROMÂNE

**Conferința lunară**

# *Primes, elliptic curves and cyclic groups*

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**Abstract:** Inspired by the similarities between the group of units of the finite field with  $p$  elements,  $\mathbf{F}_p$ , and the group of  $\mathbf{F}_p$ -rational points of an elliptic curve, I will give an overview of the old and new results pertaining to the cyclicity of the groups defined by the reductions modulo primes of an elliptic curve over  $\mathbf{Q}$ .