



**COLLOQUIUM DI MATEMATICA**  
Dipartimento di Matematica e Fisica, Università Roma Tre

# LIONEL VAUX

## $\lambda$ -calculus, linear logic, and all that...



Lionel Vaux (Marseille)

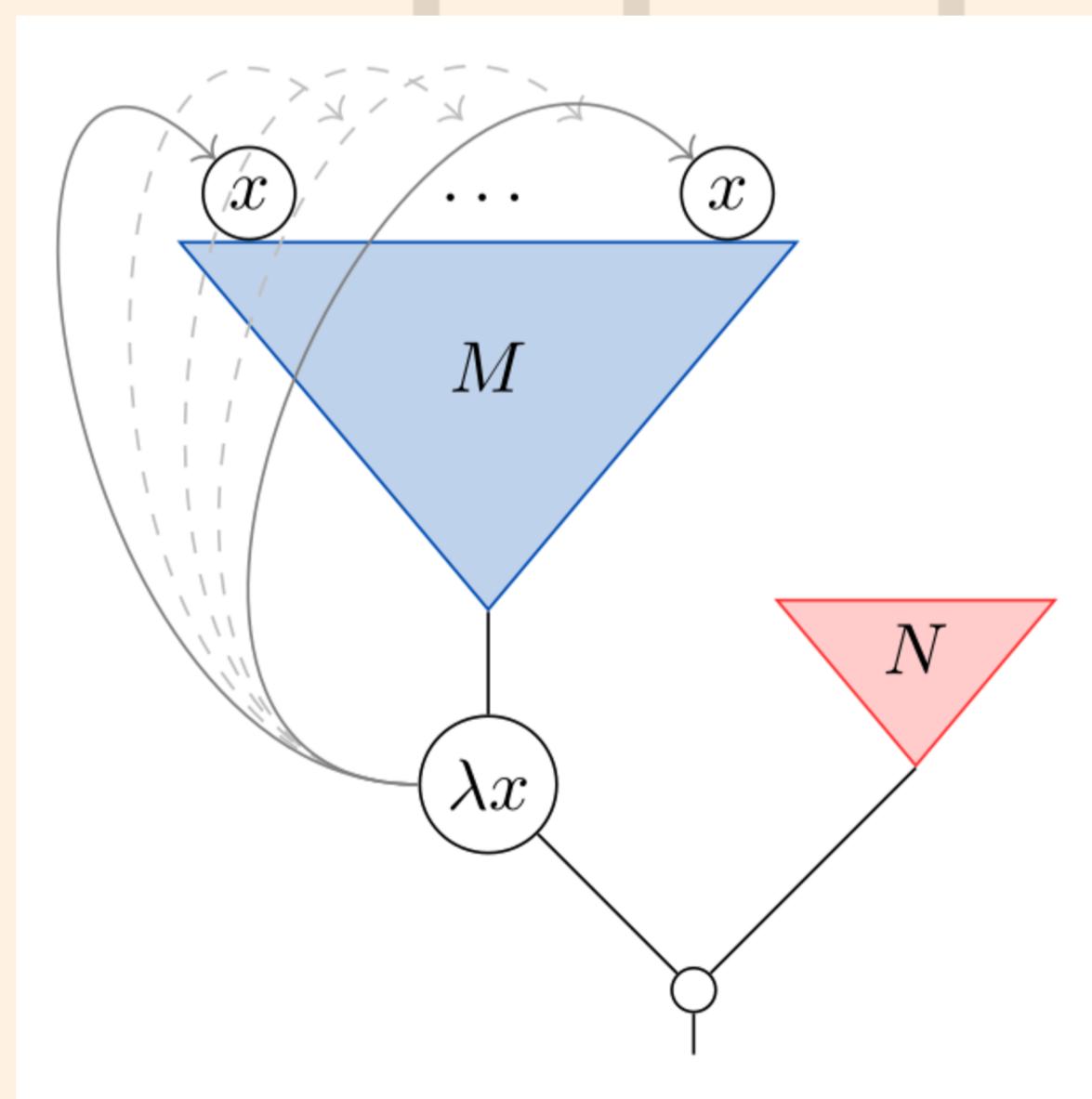
**Mercoledì  
22 Aprile  
2026**

**Ore 16.00  
AULA M1  
Blocco Aule S. Murialdo**

### ABSTRACT:

After a brief (and hopefully gentle) overview of the Curry-Howard correspondence between proofs and programs, I will present recent advances in the theory of the  $\lambda$ -calculus and linear logic, with connections to various fields of mathematics:

- combinatorics, via differential linear logic;
- graph theory, via proof nets;
- topological dynamics, via the infinitary  $\lambda$ -calculus.



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