

UNIVERSITY OF CRETE  
DEPARTMENTS OF MATHEMATICS AND APPLIED MATHEMATICS

SEMINAR

11:15pm, Friday, 25 May 2018  
Room A-303

**Viviane Pons** *Paris-Sud University, Orsay*

*Permutrees*

The permutrees are a family of combinatorial objects which includes permutations, binary trees, binary sequences and a range of objects "in between". In this talk, we will discuss their combinatorial, geometrical and algebraic properties which relates them to some well know objects like the permutohedra or associahedra. In particular, we will show:

- the lattice of permutrees
- the permutreehedron
- the hopf algebra of permutrees