Speaker: Dr. Wenjie Fang, Université Gustav Eiffel
Date: Wednesday March 12th

Title: Tamari intervals and blossoming trees

Abstract:
We introduce a simple bijection between Tamari intervals and the blossoming trees (Poulalhon and Schaeffer, 2006) encoding planar triangulations, using a new meandering representation of such trees. Its specializations to the families of synchronized, Kreweras, new/modern, and infinitely modern intervals give a combinatorial proof of the counting formula for each family. Compared to Bernardi and Bonichon (2009), our bijection behaves well with the duality of Tamari intervals, enabling also the counting of self-dual intervals.