WORKSHOP ON LOCAL LIMITS FOR GALTON-WATSON TREES

2018, 18-22 of June

SCHEDULE

Monday 18th of June

9h-10h30   **Jean-François Delmas**
(1) Introduction to GW processes. Probability P(E) of the extinction event E

11h-11h50 **Nakatsu Tomonori**
Properties of density functions on maxima of one-dimensional diffusion processes

14h-15h30   **J-F. Delmas**
(2) *Speed of extinction. Limit of GW processes. Explicit computation in the geometric case.*

16h-16h50   **Doan Thai Son (IMH-VAST)**
A classification of random circle maps

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Tuesday 19th of June

9h-10h30   **J-F. Delmas**
(3) Trees. GW trees and GW tree conditionally on E.

11h-11h50 **Viet-Hung Pham (IMH-VAST)**
Persistence probability of random polynomials

14h-15h30   **J-F. Delmas**

(4)Multi-type GW trees. GW tree conditionally on the non-extinction event E^C

16h- 16h50   **Luong Duc Trong (Hanoi National University of Education)**
Semi-implicit Milstein approximation scheme for non-colliding particle systems

Wednesday 20th of June

8h30-10h   **Romain Abraham**
(5) Topology on the space of trees. Local convergence of trees. Kesten's tree

10h30-12h   **R. Abraham**
(6) Other results for the local convergence for conditioned GW.

FREE AFTERNOON

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Thursday 21th of June

9h-10h30   **J-F. Delmas**
(7) Results on random walks: strong ratio limit theorem and Dwass formula.

11h-11h50   **Ngoc Khue Tran (Pham Van Dong University)**
Local asymptotic properties for the growth rate of a jump-type CIR process

14h-14h50   **R. Abraham**
(8) Other results for the local convergence for conditioned GW.

15h-15h50   **Duong Xuan Giap (Vinh University)**
TBA

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Friday 22th of June

9h-10h30
R. Abraham
(9) Introduction to the condensation phenomenon for local limit of GW trees.

11h-11h50 **Ngo Hoang Long (Hanoi National University of Education)**
Approximation for non-smooth functionals of stochastic differential equations with irregular drift.

14h-15h30
R. Abraham
(10) Local limit of GW trees conditioned to be very large at late time.
Explicit representation in the geometric case. Martin boundary for GW processes.