

Large time stability issues for finite difference schemes (session 1)

Monday, October 24, 2022 2:00 PM (1h 30m)

We prove generalized Gaussian bounds for the large time behavior of finite difference approximations of the transport equation. The goal of the talk is to review the connection with the central limit theorem in probability theory, some history of the problem and to present the general methodology leading to sharp estimates for the Green's function. The talk is based on a joint work with Grégory Faye.

Presenter: COULOMBEL, Jean-François (Institut de Mathématiques de Toulouse)