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How to predict the local variance of the wind ?

Abstract : I will present a proposal to answer this question, which will be the opportunity to gather in this talk some recent results on simplified McKean-Vlasov models in fluid turbulence, on the impact of the introduction of uncertainty quantization in the model for this type of time series, on the analysis of numerical schemes for SDEs with polynomial diffusion.

This talk is based on two recent works in collaboration with Kerlyns Martinez and Jean Francois Jabir.