Unité de Probabilités

Conférence de Michael Cranston

EPFL > Faculté SB > IMA > PROB & PRST > Séminaires > Mardi 28 et jeudi 30 juin 05 - Michael Cranston
french only

SÉMINAIRE DE PROBABILITÉ

Mardi 28 juin 2005 à 10h15 et Jeudi 30 juin 2005 à 10h15
MA 12, EPFL, Ecublens

Michael Cranston

University of California, Irvine

Brownian stochastic Flows.

Résumé

First part - Tuesday (10h15-11h30)

We introduce two models for the motion of passive tracers in a "turbulent" media.

The first model involves the random vector fields model developed by Kolmogorov. These vector fields are used in modelling ocean currents. The second model is that of isotropic Brownian flow. We will give some of the basic results about these two models.

Second part - Thursday (10h15-11h00)

Continuing from the first talk we will explain some of the unexpected dispersive properties of a body of passive tracers moving under these flows.

We will also relate some interesting related results of Dolgopyat, Kaloshin and Koralov on stochastic flows.

Compléments

Annonce officielle

Lien MathSciNet

---

date de mise à jour : juin 05.