

## DMV-Jahrestagung 2006



## Minisymposium 24 - Probability and Geometry

## On a stochastic Euler equation

ANA BELA CRUZEIRO (G.F.M. AND DEP. MATHEMATICS IST, LISBON)

We follow Arnold's approach of Euler equation as a geodesic on the group of diffeomorphisms and prove the existence of a stochastic perturbation of this equation when the underlying manifold is the two dimensional torus. This is joint work with F. Flandoli and P. Malliavin.