# On statistical estimation of the initial probability distribution based on the observations of dynamics at the end of an interval.

## Alexander Tkeshelashvili

We consider a problem of the estimation of density of a random value that is the an initial value of some dynamics. The dynamics is determined by differential equation whose solution is observable at the end of an interval. By using a method of transformation of a measure along an integral curve in combination with kernel estimates, we present a procedure of the estimation of density.