



UNIVERSIDADE FEDERAL DE ALAGOAS
PROGRAMA DE PÓS-GRADUAÇÃO EM
MATEMÁTICA



Mixing Exponential Lower bounds for the transport equation with L^2 initial data
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Resumo:

We prove an exponential lower bound for the $\|\rho(x, t)\|_{H^{-1}}$ norm where $\rho(x, t)$ is the solution of the transport equation with a vector field $W^{1,p}(T^2)$ for $2 < p < \infty$ and initial data $\rho^0 \in L^2(T^2)$. We use the Monge-Kantorovich-Rubinstein distance as measure of mixing. We obtain constants depending only on $\|\rho^0\|_{L^2}$ and on the gradient of \ln -concave function.

Data: 05/05/2020

Horário: 17:00

Local: Sala da Web Conferência RNP

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