Seminar of graduate students 2022 MATH

The Porous Medium Equation with Dirichlet boundary conditions as a Gradient Flow

김동광, 서근택

2022년 4월 12일

15시00분 ~ 17시 00분

과학관 254호

Abstract: We consider the weak solutions of porous media equation with homogeneous or constant boundary conditions. We show that the equation has a gradient flow structure with respect to Wb_2 metric, where Wb_2 is a modified Wasserstein distance introduced by Figalli and Gigli (2010). Moreover, the energy dissipation inequality for the solution is established. This is joint work with Dowan Koo(Yonsei).

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