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Title: *Symmetrization in nonlocal diffusion problems*

Abstract:

We present symmetrization results for the solutions of linear nonlocal diffusion problems, where the nonlocal diffusion is characterized by an integrable kernel. The results are given for the stationary and the evolution problems with Dirichlet boundary conditions. We recover the classical symmetrization results for the corresponding PDE problems by considering the limit solutions associated to rescaled kernels.