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Turkay Yolcu* (turkay.yolcu@gcsu.edu), Department of Mathematics, CBX017, Georgia College & State University, Milledgeville, GA 31061. *An application of Monge-Kantorovich theory to a class of parabolic PDEs.*

In this talk, I'll talk about a type of parabolic partial differential equations (PDEs) derived from a system governed by a Lagrangian and explain briefly how these kind of PDEs can be solved by using Monge-Kantorovich Theory and construct its dual problem and its solution. (Received January 26, 2010)