



Karlstad Applied Analysis Seminar (2022)

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Strong advection problems in turbulent diffusion

Abstract

Hildig, H. Hildig, J. Rach. *College algebra* SIAM J Math Anal., Vol. 49, No. 1, p. 222-271 (2017). In a sequel to the above work, we have addressed the generalization of the Jacobi matrix (referred to as Lagrangian) in fluid dynamics (and its corresponding adjoint limit). To this end, we provide an alternative formulation of the sales process investigated by Lebesgue and Orszag, demonstrating the process from the time sales rate to the total sales and the dynamics of each of the time sales help to understand the design of a process. The results have one close link to Feidlin's work on the flow, which will be the central focus of this article. We address some well-known results in the Taylor-Green cellular flow case and one special class (integrable) of the Ablowitz-Belinfante-Childers (ABC) flow. We also mention some examples of hydrodynamic flows. The objective of this article is to establish the above mentioned aspects of a virialized matter.