

Continuous Data Assimilation for the Two Dimensional g-Bénard Problem

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Data assimilation refers to the process of completing, or enhancing the resolution of the initial condition. The idea behind continuous data assimilation is to assimilate observational data into a model as it is being integrated in time so that an approximate solution converges to the true solution [1, 2]. In this talk we introduce an algorithm for continuous data assimilation for the two-dimensional g-Bénard convection problem by following Farhat, Jolly and Titi [3].

References

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- [3] A. Farhat, M. S. Jolly and E. S. Titi (2015). Continuous data assimilation for the 2D Bénard convection through velocity measurements alone. *Physica D.* 303: 59-66.