

First Joint Meeting Brazil Italy of Mathematics
Special Session: Recent Progress in Fluid Dynamics

Rio de Janeiro, August 29 - September 02, 2016

Title: On the local well-posedness of a visco-elastic model of salt dynamics

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Abstract: We consider a new visco-elastic model of salt dynamics and obtain conditions on the parameters of the model that guarantee the local well-posedness of the Eulerian formulation of the model, in which the variables are the velocity field, the left Cauchy-Green stress tensor and the temperature.