

Title: Reduced Basis approximation for LES models

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Abstract: In this talk we present Reduced Basis approximations for different LES models. We start presenting the Smagorinsky model, building the a posteriori error estimator needed for the choice of the snapshots. After that, we will introduce a VMS-Smagorinsky model for the Boussinesq equations applied to a variable height cavity. We describe the treatment of the geometrical parameter associated to the heated cavity problem. We present several numerical results for those models.