

LARGE-EDDY SIMULATION AND MULTIGRID METHODS*

SANDRA NÄGELE[†] AND GABRIEL WITTUM[‡]

Abstract. A method to simulate turbulent flows with Large-Eddy Simulation on unstructured grids is presented. Two kinds of dynamic models are used to model the unresolved scales of motion and are compared with each other on different grids. Thereby the behaviour of the models is shown and additionally the feature of adaptive grid refinement is investigated. Furthermore the parallelization aspect is addressed.

Key words. LES, turbulence, multigrid, parallelization

AMS subject classifications. 65N55, 65Y05, 76F65

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[†]Technische Simulation, IfI, Universität Heidelberg, email: sandra.naegele@iwr.uni-heidelberg.de

[‡]Technische Simulation, IfI, Universität Heidelberg, email: wittum@iwr.uni-heidelberg.de