

# Numerical simulation of laminar-turbulent transition

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## Abstract

This contribution deals with the mathematical modeling of laminar-turbulent transition in the boundary layer. The modeling is based on the RANS framework with the Reynolds stress tensor approximated with the eddy viscosity approach. The turbulent viscosity is calculated with an ad-hoc three-equation transition sensitive turbulence model. The poster shows the importance of the correct prediction of the transition to some performance parameters like drag or energy losses.