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Numerical Simulation of the air flow around an tractor-trailer configuration with realistic aerodynamic conditions and comparison to experimental data from a road test

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Abstract:

With the experimental data from a road test with a full-size tractor-trailer configuration, I am to recreate the experiment within STAR-CCM+ and compare the solution to the given data. For realistic conditions the simulation will include the rotation of the tires, the relative translation of the road and a detailed volume mesh, which all will be implemented directly via STAR_CCM+.

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