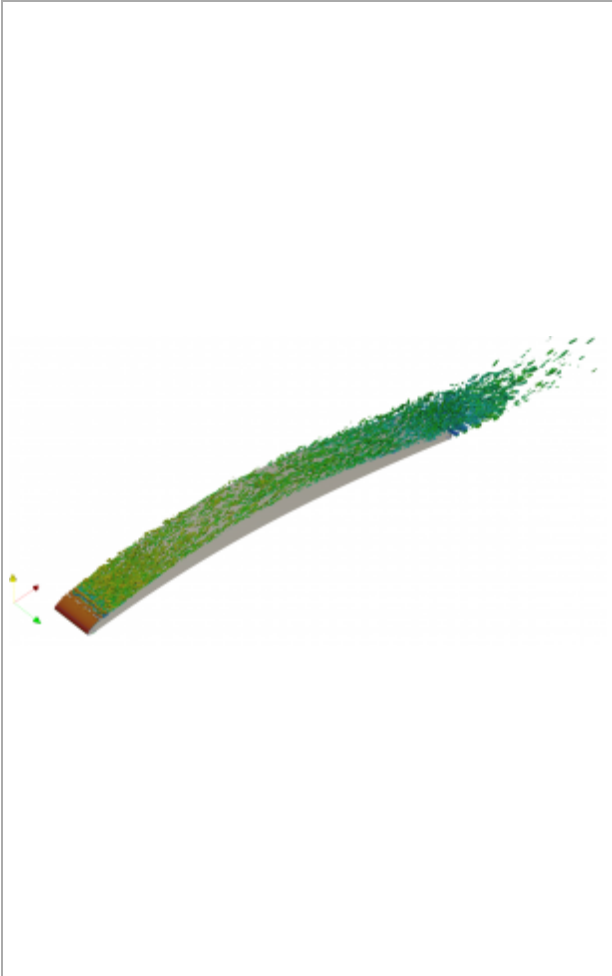


BATMAN:Test cases

From VKI Internal wiki

	<p>Trailing-edge noise of CD-valeo profile</p> <p>Controlled-Diffusion airfoils are a class of cambered airfoils that employ specific characteristics to carefully control the boundary-layer growth on the airfoil surface, and are typically used in modern high-speed compressors and low-speed ventilators. The present profile corresponds to the mid-span section of the H380EC1 fan blade. It has a 4% relative thickness and a camber angle of 12°. The airfoil chord length is $C=0.1356\text{m}$. It is set at a geometrical angle of attack of $\alpha_w=8^\circ$. The reference velocity is $U_0 = 30\text{m/s}$, defining a Reynolds number based on the airfoil chord length $\text{Re}_C=2.8 \times 10^5$. The sound radiated is mainly coming from trailing-edge due to the boundary-layer developing along the airfoil profile and being scattered at trailing-edge. The sound computation uses CFD RANS flow computation performed on OpenFoam (http://www.openfoam.com/).</p>
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