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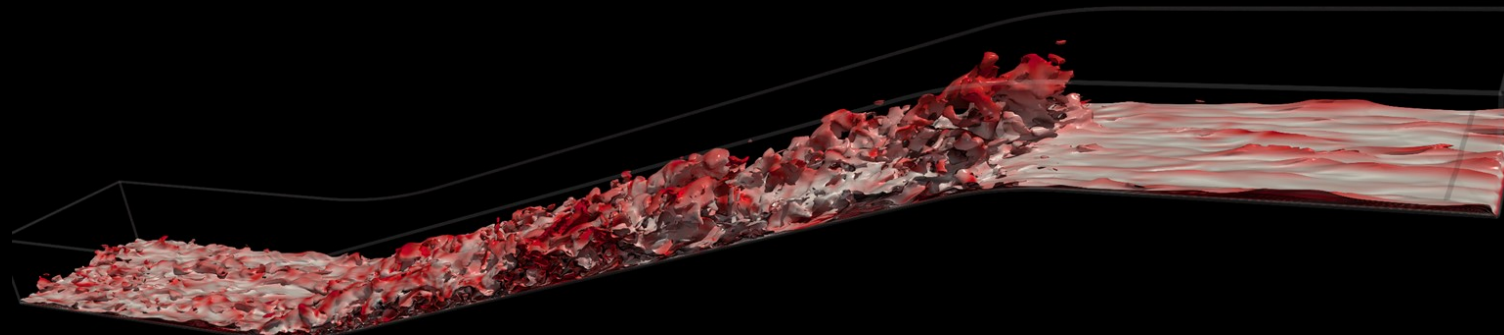


Entry # V0027

Wall temperature effect on thermal coherent structures over supersonic turbulent boundary layers subject to surface curvature

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DNS of Concave-Convex Wall Curvature

Approach	DNS (3) Cold / Quasi Adiabatic / Hot
Mach	2.86
T_{wall}/T_{rec}	0.4/1.04/1.5
Inlet Reynolds (Re_{δ_2})	488/743/850 $\delta^+ \approx 250$
L_x	$\sim 27 \delta_{ref}$
L_y	$17 \delta_{ref}$
L_z	$3 \delta_{ref}$
N° of cells	10M
Δx^+ (Q-Adiab)	8
$\Delta y^+_{min/max}$ (Q-Adiab)	0.2 / 10
Δz^+ (Q-Adiab)	8
Cores	640

Schematic of the
complex mesh

