



Figure 17: Diamond at $M = 1.4$, $\alpha = 0^\circ$ and $Re = 3.6 \times 10^6$: Adapted meshes (left) composed of about 1.6 million vertices and associated Mach number field (right) obtained using the goal-oriented viscous error estimate. From top to bottom, global view of the domain surface, global view of the domain with a cut plane at $y = 0$, and close-up view in the boundary layer region where the shock-boundary layer interaction occurs.