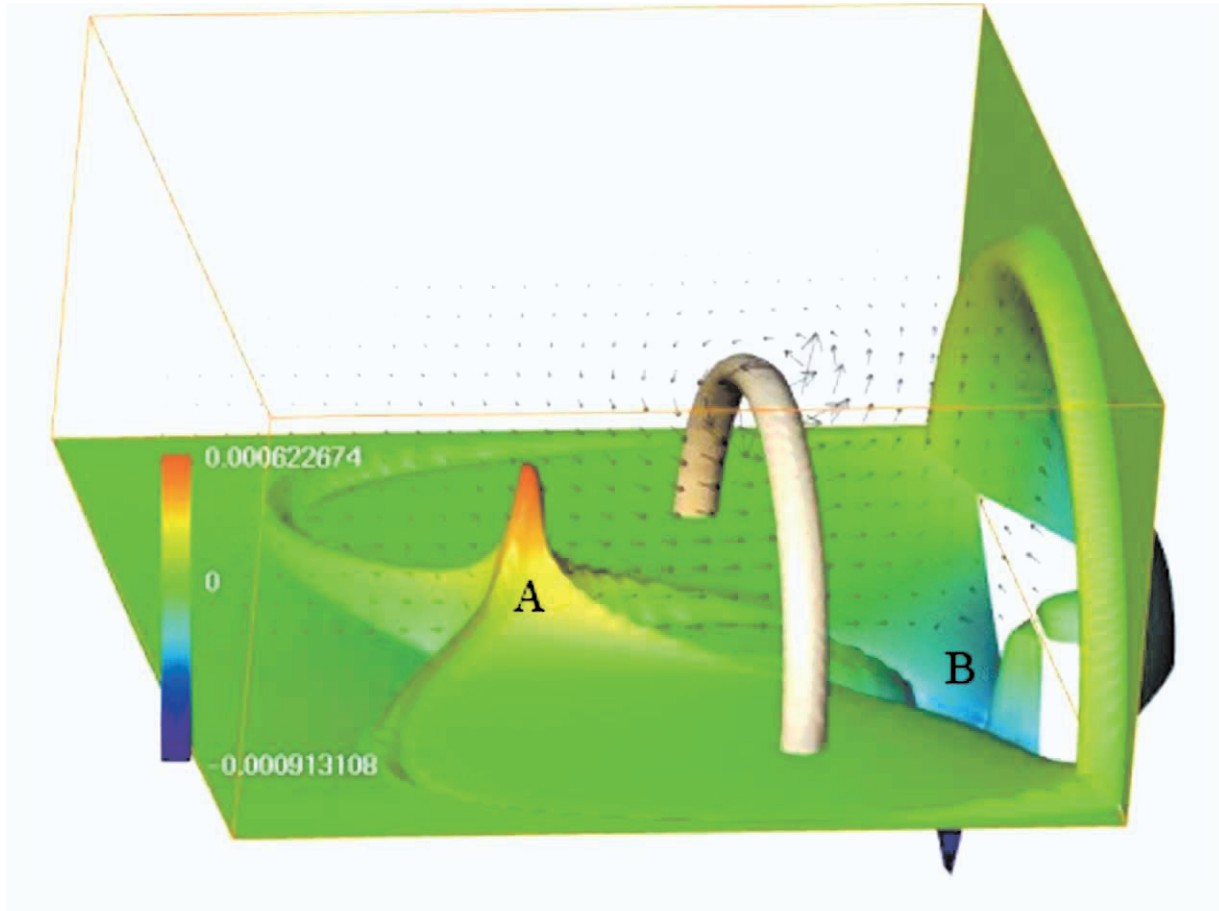


3. Shock/vortex Ring Interaction and the Generation of Acoustic Waves (2)

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Simulation result for the pressure field due to the passage of a vortex ring ($R=50$, $\Gamma=0.01$) through a stationary Mach 1.5 shock at $t=39.0$ is shown. The plot shows the isopressure contour on the horizontal plane (through the symmetry axis) and on the shock front (vertical plane). The pressure disturbance is a compression at A and a rarefaction at B. The outer contour of the vortex ring (based on the velocity magnitude) and the velocity vector field in the vertical plane are also shown.