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Numerical studies of shock wave interactions with a supersonic turbulent boundary layer in compression corner Turning angle effects

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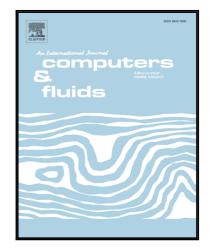
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Highlights

- Low frequency oscillation of shock has strong relation with separation bubble.
- Turbulence state changes dramatically through the interaction.
- The turning angle has significant effect on coherent vortex structures.
- Change of turbulent transport mechanism relies on separated shear layer.

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