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A conservative interface-interaction method for compressible multi-material flows

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## Highlights

- A conservative interface-interaction method dedicated to simulating multiple (three or more) compressible fluids.
- Simple and fully conservative numerical models for finite-volume cut cells.
- A multi-material scale separation model to improve robustness.
- A multi-resolution method and a local time-stepping scheme incorporated.
- High robustness for high-resolution simulations.

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