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Parametrization of the cumulant lattice Boltzmann method for fourth order accurate diffusion Part II: Application to flow around a sphere at drag crisis

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## Highlights

- Demonstration that the cumulant lattice Boltzmann model with optimized parameters captures the drag crisis for flows over a sphere.
- It is observed that, in the transition regime between the high and the low drag configuration, the flow switches from one state to the other state.

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