Accepted Manuscript

A coupled immersed boundary and immersed interface method for interfacial flows with soluble surfactant

Wei-Fan Hu, Ming-Chih Lai, Chaouqi Misbah

 PII:
 S0045-7930(18)30201-9

 DOI:
 10.1016/j.compfluid.2018.04.013

 Reference:
 CAF 3858

To appear in: Computers and Fluids

Received date:30 October 2017Revised date:25 January 2018Accepted date:6 April 2018

Please cite this article as: Wei-Fan Hu, Ming-Chih Lai, Chaouqi Misbah, A coupled immersed boundary and immersed interface method for interfacial flows with soluble surfactant, *Computers and Fluids* (2018), doi: 10.1016/j.compfluid.2018.04.013

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Highlights

- A simple immersed interface method for convection-diffusion equations in moving irregular domain.
- Capturing the solution discontinuity accurately across interfaces via the usage of jump conditions.
- Application to the numerical simulation of interfacial flows with soluble surfactant.

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