

sc_lbm

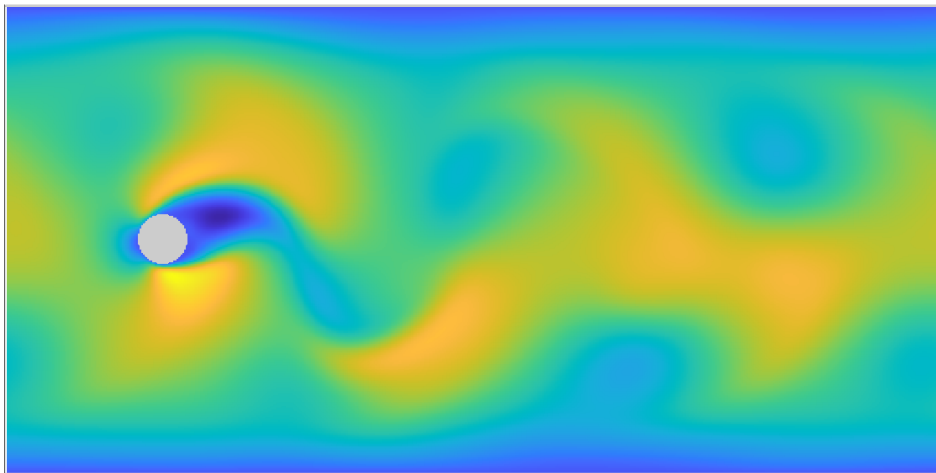
Shan and Chen lattice Boltzmann method

User Manual

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Agnieszka Truskowska

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Introduction

sc_lbm is a software for simulations of Shan and Chen lattice Boltzmann method. Current implementation includes single phase flows and flows of two different immiscible fluids. The software is written in C++ and serial, parallelization is a long term goal. New features and extensions are continuously underway and will be included in new software releases.

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1 Overview

1.1 Code availability and contact information

The software is completely open-source and available through GitHub:

https://github.com/LBMFluids/sc_lbm

The author can be contacted through the email address listed [here](#). Please contact if encountering any issues or bugs. The users are also encouraged to provide feedback, extensions, and ideas.

1.2 Documentation

1.3 Repository and code structure

1.4 Installation and a quick start

1.5 Structure of this manual