

Comparative Study of Discrete Velocity Method and High-order Lattice Boltzmann Method for Simulation of Rarefied Flows

L.M. Yang , C. Shu , J. Wu , Y. Wang

PII: S0045-7930(17)30028-2  
DOI: [10.1016/j.compfluid.2017.01.014](https://doi.org/10.1016/j.compfluid.2017.01.014)  
Reference: CAF 3380



To appear in: *Computers and Fluids*

Received date: 9 February 2016  
Revised date: 13 January 2017  
Accepted date: 17 January 2017

Please cite this article as: L.M. Yang , C. Shu , J. Wu , Y. Wang , Comparative Study of Discrete Velocity Method and High-order Lattice Boltzmann Method for Simulation of Rarefied Flows, *Computers and Fluids* (2017), doi: [10.1016/j.compfluid.2017.01.014](https://doi.org/10.1016/j.compfluid.2017.01.014)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Highlight**

- A comparative study is conducted between DVM and HLBM.
- It was found that for cases with low  $Kn$ , HLBM is more efficient.
- It was found that for cases with high  $Kn$ , DVM performs better than HLBM.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5011990>

Download Persian Version:

<https://daneshyari.com/article/5011990>

[Daneshyari.com](https://daneshyari.com)