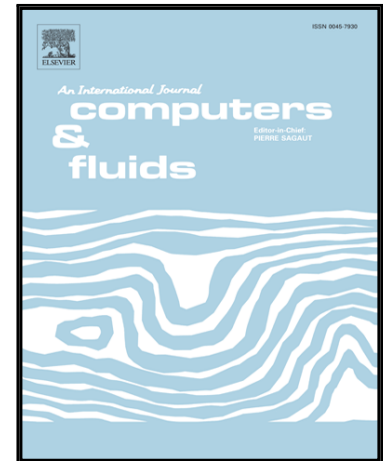


Accepted Manuscript

Efficient simulation of one-dimensional two-phase flow with a high-order h-adaptive space-time Discontinuous Galerkin method

J.S.B. van Zwieten, B. Sanderse, M.H.W. Hendrix, C. Vuik, R.A.W.M. Henkes

PII: S0045-7930(17)30220-7
DOI: [10.1016/j.compfluid.2017.06.010](https://doi.org/10.1016/j.compfluid.2017.06.010)
Reference: CAF 3515



To appear in: *Computers and Fluids*

Received date: 30 May 2016
Revised date: 31 March 2017
Accepted date: 14 June 2017

Please cite this article as: J.S.B. van Zwieten, B. Sanderse, M.H.W. Hendrix, C. Vuik, R.A.W.M. Henkes, Efficient simulation of one-dimensional two-phase flow with a high-order h-adaptive space-time Discontinuous Galerkin method, *Computers and Fluids* (2017), doi: [10.1016/j.compfluid.2017.06.010](https://doi.org/10.1016/j.compfluid.2017.06.010)

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.

Highlights

- An h -adaptive space-time Discontinuous Galerkin scheme is proposed.
- The scheme is superconvergent on the growth and dissipation of waves.
- The scheme shows a high convergence rate even if discontinuities are present.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5011739>

Download Persian Version:

<https://daneshyari.com/article/5011739>

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