

Accepted Manuscript

Parallel Evaluation of Quantum Algorithms for Computational Fluid Dynamics

René Steijl, George N. Barakos

PII: S0045-7930(18)30184-1
DOI: [10.1016/j.compfluid.2018.03.080](https://doi.org/10.1016/j.compfluid.2018.03.080)
Reference: CAF 3841



To appear in: *Computers and Fluids*

Received date: 24 January 2017
Revised date: 21 March 2018
Accepted date: 28 March 2018

Please cite this article as: René Steijl, George N. Barakos, Parallel Evaluation of Quantum Algorithms for Computational Fluid Dynamics, *Computers and Fluids* (2018), doi: [10.1016/j.compfluid.2018.03.080](https://doi.org/10.1016/j.compfluid.2018.03.080)

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

- Demonstration of the use of quantum circuits within computational fluid dynamics methods
- The simulation of quantum algorithms on parallel classical computers is investigated
- A hybrid quantum/classical algorithm for incompressible Navier-Stokes equation is introduced

Download English Version:

<https://daneshyari.com/en/article/8942092>

Download Persian Version:

<https://daneshyari.com/article/8942092>

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