## Accepted Manuscript

Sensor placement in nuclear reactors based on the Generalized Empirical Interpolation Method

J.-P. Argaud, B. Bouriquet, F. de Caso, H. Gong, Y. Maday, O. Mula

 PII:
 S0021-9991(18)30141-4

 DOI:
 https://doi.org/10.1016/j.jcp.2018.02.050

 Reference:
 YJCPH 7889

To appear in: Journal of Computational Physics

Received date:8 June 2017Revised date:22 January 2018Accepted date:27 February 2018



Please cite this article in press as: J.-P. Argaud et al., Sensor placement in nuclear reactors based on the Generalized Empirical Interpolation Method, *J. Comput. Phys.* (2018), https://doi.org/10.1016/j.jcp.2018.02.050

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 application of GEIM to optimize sensor locations in nuclear reactors taking into account restrictions on the location of the sensors.
  Rapid reconstruction of fast flux and nuclear power using a reduced basis and thermal flux measurements.
- Numerical results show that GEIM has the ability to deal with the essential mechanisms of the physical system in order to learn how to provide coherent indications on sensor locations.

Download English Version:

## https://daneshyari.com/en/article/6928956

Download Persian Version:

https://daneshyari.com/article/6928956

Daneshyari.com