

## Accepted Manuscript

Local and global recurrences in dynamic gas-solid flows

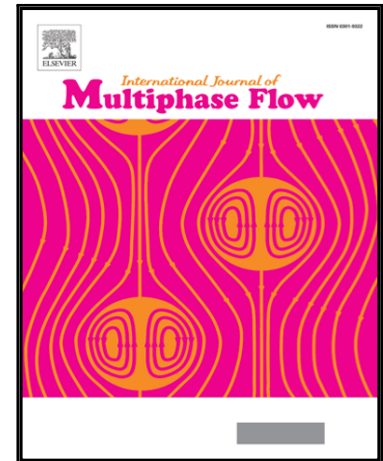
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**Highlights**

- Recurring patterns in a lab-scale, bubbling fluidized bed are investigated.
- Both locally and globally, low-dimensional dynamics is identified.
- The mean nearest-neighbor distance initially drops, but then almost saturates.
- The relative majority of states recurs fast, but new ones are constantly appearing.
- It is shown how to assess if further information can be obtained from simulations.

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