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New methodology for parameter estimation of offshore slug models with Hopf bifurcation

Ricardo F. Rodrigues, Jorge O. Trierweiler, Marcelo Farenzena

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Highlights

- Least squares method is not adequate for Hopf bifurcation models
- Novel approach for parameter estimation based on weighted sum of least squares
- Improved parameter estimation of models presenting limit cycle and Hopf bifurcation
- Statistically better model fits for the latest slug models

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