

Supplementary material

Sample-based approach can outperform the classical dynamical analysis -
experimental confirmation of the basin stability method

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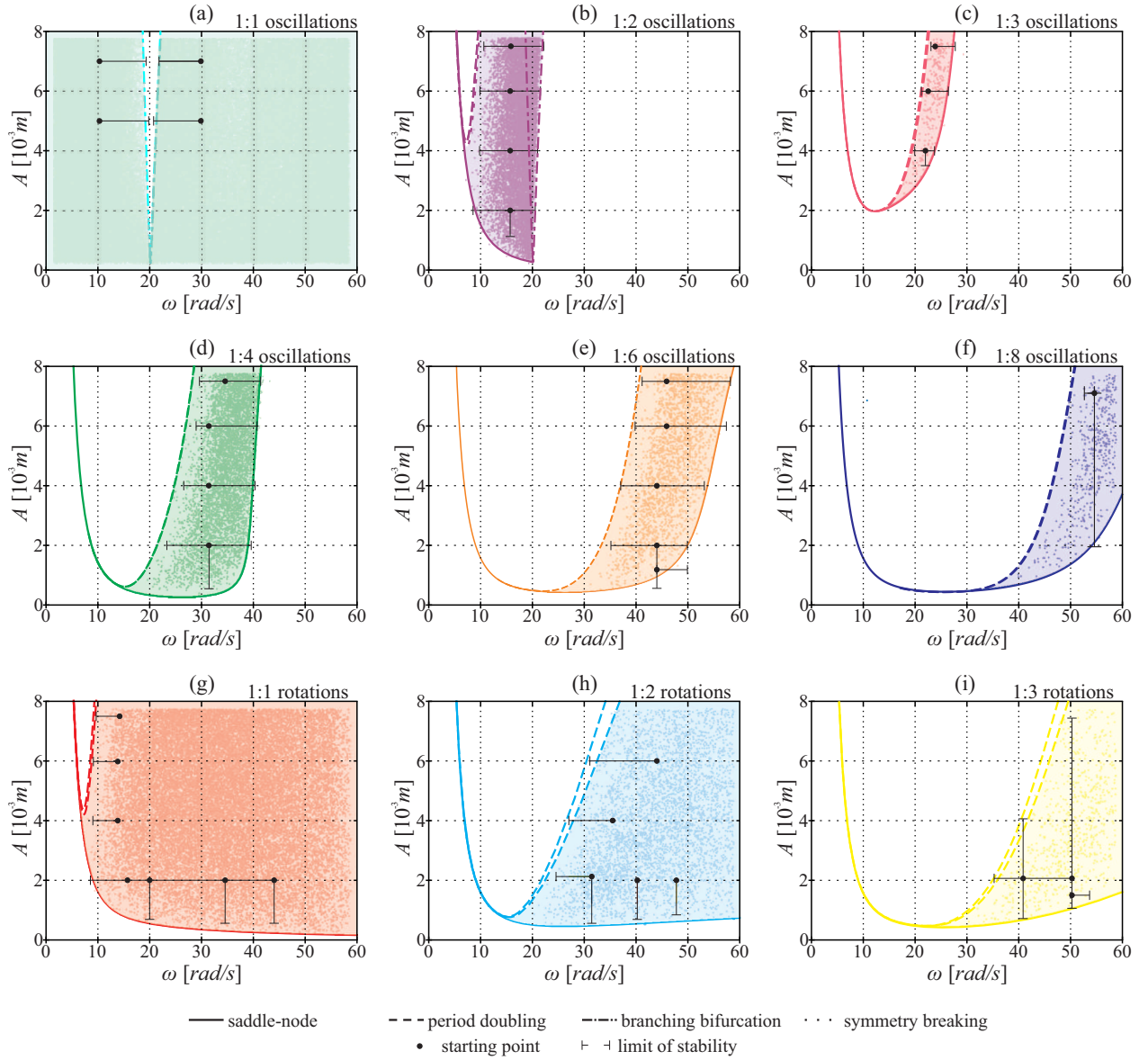


Figure 1: Results from the investigation using the extended basin stability method with parameters mismatch as described in Section "Investigation of the system with parameters mismatch". Figure corresponds to Fig. 3 that was obtained with fixed parameters values. Panels show the comparison between the ranges of stability obtained using the path-following method (colour lines), the sample-based approach (dots) and the experimental investigation (black lines). Each panel corresponds to a different solution.

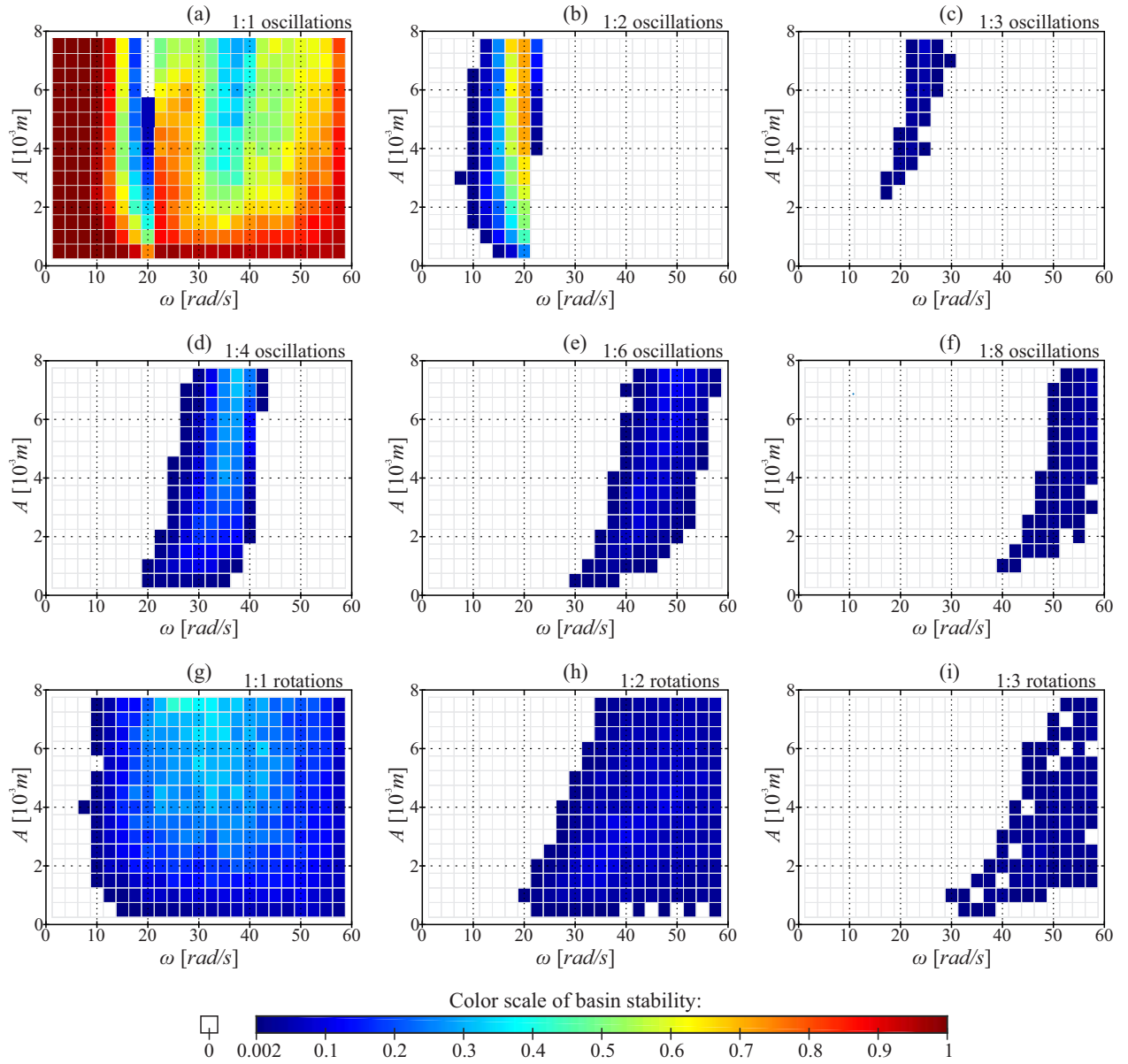


Figure 2: Results from the investigation using the extended basin stability method with parameters mismatch described in Section "Investigation of the system with parameters mismatch". Figure corresponds to Fig. 4 that was obtained with fixed parameters values. Panels show the two parameter maps of the basin stability for 9 investigated solutions. The grid corresponds to the lattice used during the calculations. Below is the common basin stability scale used for all 9 panels.