Reaction-Diffusion Simulations for Multiply-Waisted Hourglass Geometries

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— In previous work, the Reaction-Diffusion model correctly predicted a period doubling cascade to chaos in Taylor-Couette flow with hourglass geometry. Our current calculations apply the model to Taylor-Couette flow in a cylindrical geometry with multiple waists of super-critical flow connected by regions of barely super-critical flow. We compare our results to the findings of an ongoing experimental program.

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