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Detection of the persistency of the blockages symmetry influence on the multi-scale cross-correlations of the velocity fields in internal turbulent flows in pipelines

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Highlights

The flow near the walls preserve memory of blockage symmetry for longer distances

The correlations at different time scales are sensitive to the blockages symmetry

The cross-correlations in mid-channel are stronger than close to the pipeline wall

Correlations increase at large time scales as the points move away from blockages

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