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Heart valve flow computation with the integrated Space–Time VMS,
Slip Interface, Topology Change and Isogeometric Discretization
methods

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Highlights

- Heart valve flow computation challenges are addressed with a space–time (ST) method.
- The core method is the ST variational multiscale method.
- Two of the special methods are the ST topology change and ST slip interface methods.
- The third special method is the ST isogeometric analysis.
- Boundary layers are represented accurately even when the leaflets are in contact.

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