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A coupled Finite Volume - Smoothed Particle Hydrodynamics method for incompressible flows

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Highlights

A coupled Finite Volume – Smoothed Particle Hydrodynamics method is proposed

The FVM and SPH solutions are matched at the interface through an iterative procedure

The computational time saving with respect to full-SPH is calculated in several test cases

A very good agreement of the numerical results with comparison data is obtained

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