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A SPH Solver for Simulating Paramagnetic Solid-Fluid Interaction in the Presence of an External Magnetic Field

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Highlights

- SPH was developed for simulating magnetorheological fluids at micro-scale.
- Magnetic flux continuity was directly imposed modifying the force calculation.
- Benchmarks solved involving magneto-hydrodynamic interaction of solid bodies.
- Stress responses of a sheared suspended magnetic chain was investigated.

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