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|  |  |
| --- | --- |
| (a) Velocity magnitude | (b) Particle position |

Figure 1 – Moving Square test case at time 8s, with initial particle spacing Δ*x*=0.2 m.

[1] S. Børve M. Omang, J. Truslen (2005). Regularized smoothed particle hydrodynamics with improved multi-resolution handling, *Journal of Computational Physics* 208 345-367.

[2] R. Vacondio, B. D. Rogers, and P. K. Stansby, (2011). Accurate particle splitting for SPH in shallow water with shock capturing. *International Journal for Numerical Methods in Fluids*, doi: 10.1002/fld.2646.