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Efficient VOF simulations of pore-scale multiphase flow

Monday, 14 May 2018 14:25 (15 minutes)

We describe recent advances in pore scale dynamics direct numerical simulation. The Volume of Fluid method associaed with well-balanced surface tension methods allows for the simulation of low capillary numbers. Further progress should involve thin film and corner flow formation, contact line dynamics and efficient combinations of parallelism and grid adaptation.

This ensemble of approaches is expected to particularly interesting for enhanced oil recovery modelling.

References

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