Computational Magma Dynamics

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M. Kneplev (UC)

Magma Dynamics Collaboration

Timestepping Collaboration



Richard Katz



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What am I going to talk about?

- Magma Dynamics Model
- FEM formulation and solver
- FEM+FVM formulation and solver

Why is this important?

- It is difficult to compare meshes, discretizations, and multilevel solvers
- Comparison is essential for making informed algorithmic choices
- Comparison in a single code seems necessary