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FEniCS-SZ: two-dimensional modeling of the thermal structure of subduction zones

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Summary

Plate tectonics ... subduction zones ... volcanoes, earthquakes,.... metamorphism .... temperature control (van Keken & Wilson, 2023)

Statement of need

FEniCS-SZ is cool and is based on Wilson & van Keken (2023).

FEniCS-SZ is intended also for classroom use and augments the FEniCSX Tutorial (Dokken, 2023), which is itself built on the FEniCS Tutorial (Langtangen & Logg, 2016).:

State of the field

Software design

Research impact statement

AI usage disclosure

No information or code was harmed by AI.

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