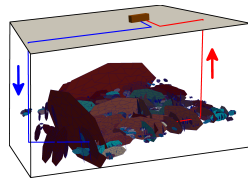
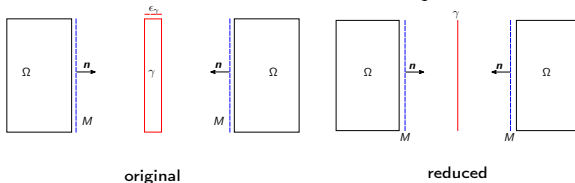


Reactive flows in fractured porous media^[1,2]



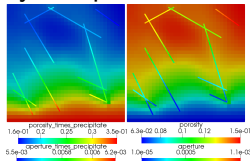
POLITECNICO
MILANO 1863

- fractures are lower-dimensional objects

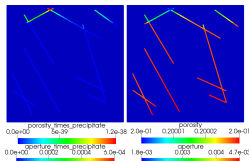


geothermal system

- physical processes described via reduced models



occluding fractures



opening fractures



chemical reactions in a fracture network

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[1] A. Fumagalli and A. Scotti. "A mathematical model for thermal single-phase flow and reactive transport in fractured porous media". In: *Journal of Computational Physics* 434 (2021).

[2] L. Formaggia, A. Fumagalli, and A. Scotti. A multi-layer reactive transport model for fractured porous media. Tech. rep. arXiv:2011.04227 [math.NA], 2020.