

SPEAKER:

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TITLE:

Convection in Layered Porous Media

ABSTRACT:

We investigate the Darcy-Boussinesq model for convection in layered porous media. In particular, we establish the well-posedness of the model in two and three spatial dimension, and derive the regularity of the solutions in a novel piecewise twice differentiable function space. Various asymptotic behavior will also be briefly discussed.