



SEMINÁRIO

Análise e Equações Diferenciais

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The Hele-Shaw free boundary limit
of Buckley-Leverett System

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ABSTRACT:

In this talk, we propose a new approach to solving the Buckley-Leverett System, which is to consider a compressible approximation model characterized by a stiff pressure law. Passing to the incompressible limit, the compressible model gives rise to a Hele-Shaw type free boundary limit of Buckley-Leverett System, and it is shown the existence of a weak solution of it.

CMAFCIO