

## On Hele-Shaw flow with linear drift

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In this conference we'll speak about some recent results on  $L^1$ -comparison principle for weak solution of the Hele-Shaw flow with linear drift. This enables to provide uniqueness as well as the existence by using an approximation by Euler-implicit scheme discretization. Moreover, we'll show how this subserves to prove that the solution can be achieved by taking the incompressible limit in the porous medium equation with linear drift.