



# SEMINÁRIO DE EQUAÇÕES DIFERENCIAIS

Dynamic capillary pressure for two-phase flows

CLÉMENT CANCÈS

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Sala 321 do IMECC

**Resumo:** We consider an immiscible incompressible two-phase flow, but the capillary pressure  $p_n - p_w$  is described by  $p_n - p_w = p_c(s) + \tau(s)s_t$ . This yields a degenerate pseudo parabolic equation. We discuss the existence of a solution. No numerics.