



SEMINÁRIO DE EQUAÇÕES DIFERENCIAIS

Steady Flow for Incompressible Fluids in Domains with Unbounded Curved Channels

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Abstract: We give an overview on the solution of the stationary Navier-Stokes equations for non newtonian incompressible fluids established by G. Dias and M.M. Santos in Steady flow for shear thickening fluids with arbitrary fluxes, J. Diff. Equations 252 (2012), no. 6, 3873-3898, propose a definition for domains with unbounded curved channels which encompasses domains with an unbounded boundary, domains with nozzles, and domains with a boundary containing arbitrarily small holes, and argue on the existence of steady flow for incompressible fluids with arbitrary fluxes in such domains. The slides I shall use for the this talk are available at

<http://www.ime.unicamp.br/msantos/Equadiff-10nov2015.pdf>