

ON THE DIRICHLET-EULER PROBLEM

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ABSTRACT

In this talk, we propose several approaches to find equilibrium solutions of the Dirichlet-Euler problem, which is motivated by a simplified mathematical model for soap films with elastic loops (or the so-called Plateau-Euler problem). For simplicity, we only focus on disk-type solutions of mapping problems. The proposed approaches involve investigation of PDEs of elliptic and parabolic types.

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