



**UNIVERSITÀ
DI PARMA**

DIPARTIMENTO DI SCIENZE MATEMATICHE, FISICHE E INFORMATICHE

SEMINARIO



Giulia Bevilacqua (Università di Pisa)

Lunedì 04 Novembre 2024, ore 14.00

Aula C, Plesso di Matematica

AnaGrAM - Analysis, Geometry, and Algebra Meetings

Classical solutions for a soap film capillarity problem

In this talk, we study regularity of the soap film capillarity problem, that is soap films are chosen to be sets of finite perimeter containing an assigned amount of volume and satisfying a topological spanning condition. For plane boundaries, we show that these minimizers are normal smooth graphs with positive constant mean curvature and meeting orthogonally the boundary.

Joint work with S. Stuvard (UNIMI) and B. Velichkov (UNIPPI).

Organizzatori: Paolo Baroni, Cristiana De Filippis

