

Applied Analysis Seminar

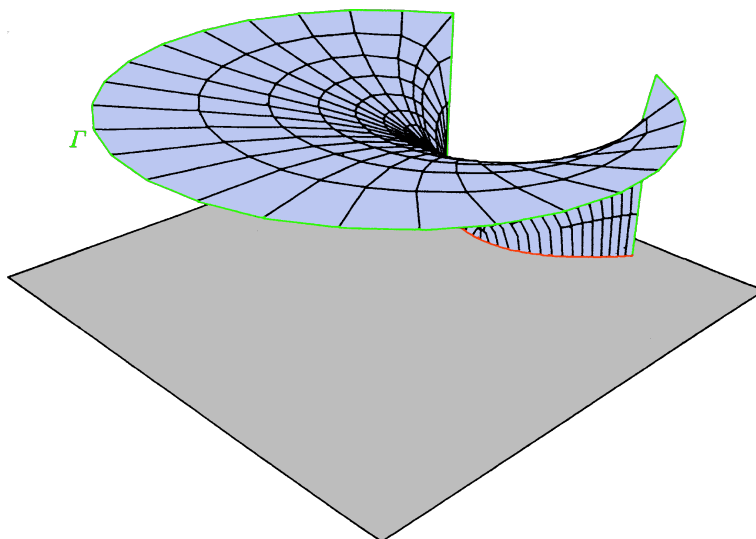
Thursday, January 19th
14:15, SR 9

Institut für Angewandte Mathematik
Mathematikon

Free boundary problems for conformally invariant variational functions

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I will present a regularity result at the free boundary for critical points of a large class of conformally invariant variational functionals. The main argument is that the Euler-Lagrange equation can be interpreted as a coupled system, one of local nature and one of nonlocal nature, and that both systems (and their coupling) exhibit an antisymmetric structure which leads to regularity estimates.