

SEMINARIO Analisi Matematica

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Titolo: “Multiplicity results for a Gauss equation on a hyperbolic surface”

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Abstract

Minimal surfaces have attracted a lot of attention in differential geometry and lead to very interesting nonlinear problems. Following a program that goes back to Uhlenbeck, we will discuss the Gauss equation on a hyperbolic surface that arises when one prescribes the conformal structure and the second fundamental form. We will see that such a problem has at least two solutions. If time permits we will discuss a “dual” problem, for which existence and uniqueness of solution can be derived.