

GEOMETRIC ANALYSIS SEMINAR

Speaker: Marco Radeschi
University of Notre Dame

Date: Thursday, October 25, 2018

Time: 11:00 AM

Location: 258 Hurley Hall



Lecture Title:

Index vs. topology of embedded minimal surfaces in R^3

Abstract

In this talk I will present a paper of Chodosh and Maximo, proving that that the index (analytic information) of minimal surfaces in R^3 can be bounded from below by an explicit affine function in the genus and number of ends of the surface itself (topological information). The style of proof follows a very successful strategy first developed by Ros. If there is time, I will discuss similar results which use this strategy, and how the Chodosh/Maximo paper differs from the other ones.