



Speaker: Andrea Malchiodi
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Tuesday, September 20, 2011
3:00 PM
125 Hayes-Healy Hall

Title: A new improved Moser-Trudinger inequality and Liouville equations on compact surfaces

Abstract:

We consider a class of equations with exponential nonlinearities and singular sources arising from the study of abelian Chern-Simons models or from the problem of prescribing a metric with conical singularities through conformal transformations. Using new, scaling invariant, improvements of the Moser-Trudinger inequality and variational methods we derive some general existence