## BEST SOBOLEV CONSTANTS IN THE PRESENCE OF SHARP HARDY TERMS IN EUCLIDEAN AND HYPERBOLIC SPACE

Gerassimos BARBATIS

Department of Mathematics, National and Kapodistrian University of Athens, Greece, gbarbatis@math.uoa.gr

In this article we compute the best Sobolev constants for various Hardy-Sobolev inequalities with sharp Hardy term. This is carried out in three different environments: interior point singularity in Euclidean space, interior point singularity in hyperbolic space and boundary point singularity in Euclidean domains.

Joint work with A. Tertikas.