



istanbul matematiksel bilimler merkezi
istanbul center for mathematical sciences

GREEN FUNCTIONS AND SHARP POINT-WISE INTERPOLATION INEQUALITIES

Sergey Zelik

University of Surrey

Abstract

A general method of finding sharp constants in interpolation inequalities on manifolds involving the Hilbertian and C-norms will be presented. The method is strongly based on the properties of Green functions for the associated elliptic problems and especially on their asymptotic behavior when the spectral parameter tends to infinity. A number of examples including inequalities on spheres, tori and some manifolds with boundary will be also discussed.

Date : Friday, August 2, 2013

Time: 14:00

Place: IMBM Seminar Room, Boğaziçi University South Campus