

ON FRACTIONAL SOBOLEV INEQUALITIES, ISOPERIMETRY
AND APPROXIMATION

JOAQUIM MARTÍN
UNIVERSITAT AUTÒNOMA DE BARCELONA

Abstract. We will present new oscillation inequalities in metric spaces, in terms of moduli of continuity and the isoperimetric profile. Some applications will be given. Joint work with Mario Milman - Florida Atlantic University.

E-mail address: `jmartin@mat.uab.cat`

Key words and phrases. Sobolev inequalities, modulus of continuity, symmetrization, isoperimetric inequalities, interpolation.