

# A SHARP TRUDINGER-MOSER TYPE INEQUALITY

Joao Marcos Bezerra do Ò  
(Universidade Federal da Paraìba)

Abstract: Using blow-up analysis, we consider an improvement of a class of Trudinger-Moser inequality associated to the embedding of the standard Sobolev space  $H_0^1(\Omega)$  into Orlicz spaces for any smooth domain  $\Omega \subset \mathbb{R}^2$ .