

1159-35-196

Joao Marcos Bezerra do O* (jmbo.pq@gmail.com), Universidade Federal da Paraiba, Centro de Ciencias Exatas e da Natureza, Departamento de Matematica, Joao Pessoa, PB 58051900, Brazil. *Trudinger-Moser inequalities on the upper half-space.*

We establish some sharp embedding results, including trace embeddings from a specific Sobolev space, defined on the upper half-space, into the Lebesgue and Orlicz spaces. Moreover, we prove some Trudinger-Moser type inequalities for functions defined on the upper half-space. As an application, we show the existence of solutions for a class of elliptic problems involving nonlinear boundary conditions. (Received August 04, 2020)