## Some necessary and some sufficient conditions for the compactness of the embedding of weighted Sobolev spaces $F. \ Antoci$

## Abstract

We give some necessary and some sufficient conditions for the compactness of the embedding of Sobolev spaces

$$W^{1,p}(\Omega, w) \to L^p(\Omega, w),$$

where w is some weight on a domain  $\Omega \subseteq \mathbb{R}^n$ .