

Sobolev Spaces - Errata and Queries - Autumn 2013

Lecture notes, p.12, proof of Theorem 2.3.

Towards the end of the proof, u and v had become transposed in the displayed formula $\|\nabla v\|_p \leq c\|\nabla u\|_p$. This has now been corrected.

Lecture 5, proof of Theorem 2.9(i).

The assertion that the case $1 \leq q < n/(N - m)$ is not needed for (ii) is incorrect; it will not generally be true that $p/(p - 1) < p$.

Problem Sheet 5.

Question 1 had already been set on sheet 2 and has now been deleted.

Lecture 10.

In the statement of Theorem 4.1(i) the inequality $q \leq p^* := Np/(N - mp)$ had erroneously been made strict.