

PDG I
(Tutorium)

Tutorial 8
(Mollifiers)

In this tutorial we covered the following topics:

- Recalling the definitions and basic properties of L^p spaces, for $1 \leq p \leq \infty$.
- The general definition of a mollifier. Using convolutions with mollifiers to show density of smooth functions in $L^p(\Omega)$ for $1 \leq p < \infty$.
- The Fundamental Lemma of the Calculus of Variations.