

**THE EXTENSION OF FUNCTIONS OF SOBOLEV
CLASSES BEYOND THE BOUNDARY OF
THE DOMAIN ON CARNOT GROUPS***I. M. Pupyshev*

We prove the theorem on extension of the functions of the Sobolev space $W_p^l(\Omega)$ which are defined on a bounded (ε, δ) -domain Ω in a two-step Carnot group beyond the boundary of the domain of definition. This theorem generalizes the well-known extension theorem by P. Jones for domains of the Euclidean space.

Key words and phrases: Sobolev space, Carnot group, extension of functions beyond the boundary of the domain of definition.

Pupyshev Il'ya Mikhajlovich
Novosibirsk State Technical University,
Novosibirsk, 630092 Russia.
E-mail: iluxa1@ngs.ru

Received
December 22, 2007

Translated into English:

Siberian Advances in Mathematics, V. 18, N 2, 124–141 (2008).