

**PARAMETRIZATIONS OF LEVEL SURFACES  
OF REAL-VALUED MAPPINGS  
OF CARNOT GROUPS**

*S. G. Basalaev*

We study the regularity of the parametrizations of level surfaces of continuously horizontally differentiable real-valued mappings of Carnot groups. Equations that describe a regular hypersurface in terms of parametrizations are obtained.

*Key words and phrases:* Carnot group, level surface.

*Basalaev Sergej Gennad'evich*  
Novosibirsk State University,  
Novosibirsk, 630090 Russia.  
E-mail: sbasalaev@gmail.com

Received  
December 6, 2011

Translated into English:

*Siberian Advances in Mathematics*, V. 23, N 3, 155–174 (2013).  
DOI: 10.3103/S1055134413030012