

Ričardas Kudžma  
Vilnius University  
Lithuania

**Monday Seminar in Mathematical Education**  
**Monday 30 March, 14.15 Gimlemoen, J2-009**

### **Teaching of the Inverse Function**

It is known that teaching of the inverse function at high school or even for freshmen at universities is quite difficult task. During a long practice of teaching mathematical analysis, didactics of mathematics at the Faculty of Mathematics and Informatics of Vilnius University I came to conclusion that a traditional approach (with changing variables for inverse function  $x = g(y)$  of the direct function  $y = f(x)$  to  $y = g(x)$ ) is misleading. It does not allow a correct geometrical interpretation and prevents understanding.

As long as we are deriving properties of the inverse function from the direct function we must keep the notation  $x = g(y)$  and explain everything on one curve – the graph of the function  $y = f(x)$ .