



Vladimir Peller (peller@math.msu.edu) Department of Mathematics, Michigan State University, East Lansing, MI 48824, USA, *Operator Hölder functions and relate questions*.

ABSTRACT. I am going to speak about recent results on the behavior of functions when they are applied to operators. In particular, it turns out that if f is a Hölder function of order α ($0 < \alpha < 1$) on the real line then

$$\|f(A) - f(B)\| \leq \text{const } \|A - B\|^\alpha$$

for arbitrary self-adjoint operators. I will also consider many other related problems.