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Tatyana Shaposhnikova* (tasha@math.ohio-state.edu), Department of Mathematics, 231 West 18th Avenue, Columbus, OH 43210. *Pointwise multipliers of differentiable functions with applications to PDEs.*

The talk is an overview of the theory of pointwise multipliers developed by the speaker and V. Maz'ya. Among new results is a complete description of multipliers acting between two Besov spaces. Applications of multipliers to various questions of the theory of partial differential equations are given. (Received February 22, 2007)