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Peter Topalov* (p.topalov@neu.edu), Northeastern University, 360 Huntington Avenue,
Boston, MA 02115. *Solutions of mKdV in classes of functions unbounded at infinity.*

We prove global (in time) existence and uniqueness theorems for solutions of the modified Korteweg - de Vries equation (mKdV) in classes of smooth functions which are unbounded at infinity. (this is a joint work with T. Kappeler, P. Perry, and M. Shubin) (Received February 06, 2006)