1125-47-883 **Anna Skripka**^{*} (askripka@unm.edu). *Trace class bounds for Schur multipliers.* Preliminary report.

We derive lower bounds for trace class norms of multilinear Schur multipliers and apply them to show that an *n*th order operator Taylor remainder arising from a C^n -function is not necessarily in the trace class S^1 when a perturbation is in the *n*th Schatten class S^n . This extends the known result that not every Lipschitz function is operator Lipschitz in S^1 and complements results on nice behavior of Schatten *p*-norms, 1 , of operator Taylor remainders. The talk isbased on joint work with D. Potapov, F. Sukochev, and A. Tomskova. (Received September 12, 2016)