1095-19-239 **Matthew Morrow*** (morrow@math.uni-bonn.de). *Continuity of topological cyclic homology.*

A problem in K-theory dating back to work of Suslin and Panin in the 1980s is that of the continuity of K-theory: given an ideal I of a ring A, what is the relationship between the K-theory of A and that of A/I^r, for all $r > 0$? In particular, when is $K(A)$ homotopy equivalent to $\operatorname{holim}_r K(A/I^r)$, perhaps after taking profinite completions?

Analogous questions may be asked for Hochschild and cyclic homology, and their topological counterparts. I will describe joint work with Bjørn Dundas in which it is shown that topological cyclic homology is indeed continuous in many expected cases. (Received September 10, 2013)