1011-13-229 **Paul C Roberts*** (roberts@math.utah.edu), Department of Mathematics, University of Utah, Salt Lake City, UT 84112-0090. *Comparing cycles in positive and mixed characteristic.* Preliminary report.

We outline a method for giving a correspondence between cycles for a ring of positive characteristic and cycles for an associated ring of mixed characteristic. The correspondence is defined using the Fontaine ring in one direction and a quotient of the ring of Witt vectors in the other direction. It is defined for certain non-noetherian rings; we also discuss the extent to which it gives information for Noetherian subrings, in particular for regular local rings, where there are unsolved problems for the mixed characteristic case. (Received August 28, 2005)