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Karen Acquista* (kea@math.bu.edu), 111 Cummington Street, Boston, MA 02215. *Class field theory for a semi-global field.*

We sketch a cohomological approach to studying the abelianized Galois group of a complete discrete valuation field with global residue field, extending results of Kazuya Kato. Such a field is obtained from a formal neighborhood of a curve on an arithmetic surface. Time permitting, we will explain the interplay with class field theory for the fraction field of a two-dimensional regular local ring with finite residue field (obtained from a formal neighborhood of a point), due to Yoshihiro Koya. (Received August 18, 2006)