1017-11-136   **Ted Chinburg*** (`ted@math.upenn.edu`), Dept. of Mathematicds, University of Pennsylvania, Philadelphia, PA 19104, **Stephen Lichtenbaum** (`slicht@math.brown.edu`), Department of Mathematics, Brown University, Box 1917, Providence, RI 02912, **Georgios Pappas** (`pappas@math.msu.edu`), Department of Mathematics, Michigan State University, East Lansing, MI 48824, and **Martin Taylor** (`Martin.Taylor@manchester.ac.uk`), School of Mathematics, Lamb Building, Univ. of Manchester, Oxford Road, M13 9PL Manchester, England. *Riemann Roch theorems for the Weil etale topology.* Preliminary report.

This talk will be about recent work on Riemann Roch theorems for the Weil etale topology, with applications to special values of L-series. (Received February 18, 2006)