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Eric M Friedlander* (ericmf@usc.edu), Math Dept, USC, 3620 S. Vermont Ave, Los Angeles, CA 90089. *A search for an algebraic equivalence analogue of motivic theories.* Preliminary report.

The Lawson (co) homology and semi-topological K-theory for real and complex varieties utilize the analytic topology and are closely related to cycles modulo algebraic equivalence. Indeed, the relationship between rational equivalence and algebraic equivalence leads to a close relationship between motivic cohomology and algebraic K-theory and these less familiar theories. This talk will present challenges and thoughts for developing a theory for varieties over other fields which is associated to algebraic equivalence, a theory which should have a “good” relationship with existing motivic invariants. These ideas have grown out of lengthy discussions with Christian Haesemeyer and Mark Walker. (Received February 07, 2018)