

**Meeting:** 1001, Evanston, Illinois, SS 13A, Special Session on Algebraic Topology: Interactions with Representation Theory and Algebraic Geometry

1001-55-306            **Charles W Rezk\*** (rezk@math.uiuc.edu), 273 Altgeld Hall, MC-382, 1409 W. Green St.,  
Urbana, IL 61801. *Dyer-Lashof algebras for Morava  $E$ -theory*. Preliminary report.

Let  $E$  be a Morava  $E$ -theory, i.e., a generalized cohomology theory associated to the Lubin-Tate deformation space of a height  $n$  formal group. By the Hopkins-Miller theorem,  $E$  is a commutative  $S$ -algebra. We examine the structure of operations on the homotopy groups of commutative  $E$ -algebras, with particular attention to the algebra of *additive* operations (called the Dyer-Lashof algebra). (This is joint work with Matt Ando.) (Received August 30, 2004)