1038-55-261 **Paul G Goerss***, Department of Mathematics, 2033 Sheridan Rd, Evanston, IL 60208. Lubin-Tate space and Morava E-theory.

I would like to review and clarify the relationship between the Lubin-Tate space of deformations of a height n formal group and the associated homology theory, the Morava E-theory E_n . It is a useful slogan to say that Lubin-Tate space is the formal neighborhood of a height n-formal group in the moduli stack of formal groups, but this is not quite true: it is more accurately described as the universal cover of that neighborhood – and the Morava stabilizer group is the group of Deck transformations. Once this algebraic geometry is understood, some of the usual complexities around the Morava E-theories become transparent; for example, there isn't really one E_n , nor is E_n really a homology theory. Other points acquire an aura of the inevitable as well; for example, the well-known connection between the co-operations and the Morava stabilizer group is a translation of the assertion about Deck transformations above. Or, to give another example, the fact that these co-operations are etale over $(E_n)_*$ is a translation that of the fact that we have a covering map. This last fact is the key input into the Hopkins-Miller theorem that E_n is an E_{∞} -ring spectrum. (Received February 11, 2008)