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convergence result for the Morava K-Theory Eilenberg-Moore spectral sequence. Preliminary report.

In this talk I will discuss the convergence of the Eilenberg-Moore spectral sequence for Morava K-theory for the path loop fibration. This spectral sequence can be constructed by applying Morava K-theory to the geometric cobar construction of the Eilenberg-Moore spectral sequence as done by Rector. For Morava K-theory I have been able to show that the Atiyah-Hirzebruch spectral sequence for ΩX is equivalent to an inverse limit of a sequence of Atiyah-Hirzebruch spectral sequences. Using this fact I have shown that the Morava K-theory Eilenberg-Moore spectral sequence converges for a space X if the Atiyah-Hirzebruch spectral sequence for X collapses at the E_2 page and the Eilenberg-Moore spectral sequence collapses for ordinary homology. (Received September 19, 2005)