1054-55-287 **Aaron Leeman*** (aleeman340gmail.com), 31828 Yucaipa Boulevard, Yucaipa, CA 92399. Generating spaces for S(n)-acyclics. Preliminary report.

In Cellular Spaces, Null Spaces and Homotopy Localization, Dror Farjoun proves that rationally acyclic, simply connected spaces are built out of a wedge of mod-p Moore spaces. He also proves that simply connected spaces which are acyclic with respect to mod-p K-theory have suspensions that are built out of V(1), the cofiber of the Adams' map $v_1: M^{q+3}(p) \to M^3(p)$, p an odd prime. This notion of one space being "built out of" another can be made precise but should be thought of as analogous to connected CW-complexes being built out of S^1 .

I'll discuss a generalization of this result, mentioned by Dror Farjoun in the above book, where sufficiently connected spaces which are acyclic with respect to a homology theory called S(n) have suspensions that are built out of a space we call W(n), where W(n) is an appropriately chosen type n + 1, finite space. If the telescope conjecture is true, S(n) can be taken to be the Johnson-Wilson theory E(n). If it fails, S(n) is a replacement for the theory E(n) which has the same finite acyclic spectra. (Received September 15, 2009)