

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

1001-55-101 **Donald Y. Yau*** (dyau@math.uiuc.edu), Department of Mathematics, University of Illinois at Urbana-Champaign, 1409 W. Green Street, Urbana, IL 61801. *λ -ring structures over $\mathbf{Z}[[x]]$.*

I will talk about the following result: The λ -ring structure over $\mathbf{Z}[[x]]$ given by the K -theory of \mathbf{CP}^∞ is uniquely determined by the condition, $\psi^p(x) \equiv px \pmod{x^2}$ for each prime p , where ψ^p is the Adams operation. Applications to algebraic topology and formal group laws will also be discussed. (Received August 16, 2004)