

Topology Seminar

Rekha Santhanam

of Johns Hopkins University will be speaking on

Equivariant Γ -spaces

on November 23 at 4:30 in
MIT Room 2-131

Costenoble and Waner showed that grouplike equivariant E_∞ -spaces model equivariant infinite loop spaces. Shimakawa gave an equivariant analog of Γ -spaces to model equivariant infinite loop spaces. We describe equivariant Γ spaces as defined by Shimakawa. We show that the categories of equivariant E_∞ -spaces and equivariant Γ -spaces are Quillen equivalent with appropriate model categories. Following Segal's work, we give a construction of equivariant Γ -spaces (and hence of equivariant infinite loop spaces) from symmetric monoidal G -categories for finite group G .