Topology Seminar

Carl-Friedrich Bödigheimer

of Universität Bonn will be speaking on

Symmetric groups and moduli spaces of surfaces

on November 3 at 4:30 in
MIT Room 2-131

The symmetric groups S_p are considered with the norm induced by the word length (with respect to transpositions as generators). This gives a filtration of their classifying spaces. Furthermore, using certain deletion functions $S_p \to S_{p-1}$ the family of all symmetric groups can be regarded as filtered simplicial object. we show: in its realization, the stratum for norm equal to h has several components, each being homoemorhic to a vector bundle over the moduli space $M_g,_1^m$ of genus g surfaces with one boundary curve and m punctures (for $h = 3D2g + m$).