Speaker:
Mehmetcik PAMUK

Title:
s-COBORDISM CLASSIFICATION OF 4-MANIFOLDS THROUGH THE GROUP OF HOMOTOPY SELF-EQUIVALENCES

Abstract:
The aim of this talk is to give an s-cobordism classification of certain topological 4- manifolds with fundamental group π such that cd $(\pi) \leq 2$ in terms of the standard invariants. Using the braid constructed by Hambleton and Kreck, to calculate the group of homotopy self-equivalences, together with the modified surgery theory of Kreck, s-cobordism classification is given for such 4-manifolds.