Speaker:Li, WeipingTitle:Casson invariant is a homotopy invariantAuthors:Weiping Li and Hyam RubinsteinAffiliations:Oklahoma State University

Abstract: We use Waldhausen's degree-1 map techniques related to Heegaard decomposition to show that the Casson invariant of integral homology 3-spheres invariant under the orientation-preserving homotopy equivalent maps. The methods used in the proof are degree-1 map, perturbations, orientation comparison and normal bundles.