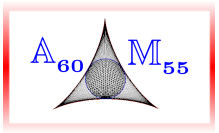
Poster Presentation, 115AM, Jaca (Spain), June 12-16, 2023



The minimal Sullivan model of plane algebraic curves

Carlos Alquézar Baeta, University of Zaragoza

Abstract

The minimal Sullivan model of a topological space allows the study of different properties of the space but, in particular, it is an invariant of the space itself. A topological space is called formal if the minimal model of its cohomology algebra is isomorphic to the minimal model of the space itself. Also, when the space is simply connected, the minimal Sullivan model gives us the rational homotopy type of the space. In this poster, we present a method to compute the minimal Sullivan model of plane algebraic curves. The method uses the presentation of the fundamental group of the curve to obtain a simplicial set homotopically equivalent to the complement of the curve, and then computes its minimal Sullivan model.