

Homology of configuration spaces of spheres

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The configuration spaces naturally appear in various branches of mathematics such as algebraic geometry, algebraic and geometric topology. The ordered configuration spaces of topological space is defined as the space of k particles moving in the topological space without collision. The symmetric group acts naturally on the ordered configuration spaces by permuting the coordinates. The orbit spaces are called unordered configuration spaces of topological space. In this talk, I will discuss the homology of configuration spaces of spheres.