

Geometry and Topology of Polyhedral Products.
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Abstract: Cartesian products have embedded within them certain natural subsets which are indexed by combinatorial information. The geometric characterization of these subspaces, known now as polyhedral products, has wide application in toric geometry and topology, combinatorics, geometric group theory, number theory, free groups, homotopy theory and arachnid mechanisms. Their fundamental properties will be described in the context of certain structure theorems. Algebraic and geometric approaches to the cohomology will also be discussed.

Pre-requisites :