1117-55-184   **Seung Yeop Yang*** (syyang@gwu.edu) and **Józef H. Przytycki** (przytyck@gwu.edu).
Geometric interpretations of distributive structure homology.

In 1993, Fenn, Rourke, and Sanderson introduced the rack space to define rack homotopy invariants and a modification to the quandle space and quandle homotopy invariants of classical links was introduced by Nosaka in 2011. In analogy to rack and quandle spaces, we define the Cayley-type graph and CW complex of distributive structures and study a relation with homology theory of distributive structures. (Received January 13, 2016)