

1089-55-385

**Krzysztof K Putyra\***, Mathematics, 2990 Broadway, Room 509, New York, NY 10027, and  
**Jozef H Przytycki**. *Degenerate part of distributive homology is determined by its normalized part*. Preliminary report.

The distributive homology of quandles and racks proved to be a useful tool in the theory of knots and links. After its discovery by Carter, Kamada and Saito, it was noticed that the distributive chain complex for a quandle splits into two parts, normalized and degenerate, immitating the simplicial homology theory. However, a degenerate complex is not acyclic, contrary to the simplicial theory. Recently, with Jozef Przytycki we managed to prove that the degenerate part, as its name suggests, is completely determined by the normalized homology.

In my talk I will describe the distributive chain complex associated to a quandle and, more generally, to splindles, and how it splits into degenerate and normalized part. Then I will give a recursive formula for the degenerate part and sketch main ideas of its proof. (Received February 19, 2013)