

## When algebra meets knot theory



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Distributivity in algebraic structures has been studied for a long time, and especially the importance of self-distributivity has already been emphasized. The Yang-Baxter equation, one of the basic equations in mathematical physics, can be regarded as a generalization of self-distributivity.

In this talk, we introduce distributive algebraic structures related to the set-theoretic Yang-Baxter equation, their (co)homology theories, and applications to knot theory.