

## ***ST*-Modular and *ST*-Distributive Lattices**

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For two sublattices  $S$  and  $T$  of a given lattice  $L$ , we define a relative distributive (modular) property over  $L$ , that underlies a large family including the usual class of distributive (modular) lattices. Our proposed class will be called  $ST$ -distributive ( $ST$ -modular) lattices. In this talk we first present examples of  $ST$ -modular ( $ST$ -distributive) for convex sets and polytopes. And then for several non-distributive finite lattices of small order, we find examples of maximal  $S$  and  $T$  to form  $ST$ -distributive lattices. The aforementioned definitions are closely related to Stanley's SS-lattices.

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