

# MINIMALLY NON-GOLOD SIMPLICIAL COMPLEXES AND MOMENT-ANGLE MANIFOLDS

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A simplicial complex  $K$  is called minimally non-Golod if deleting of any one of its vertices  $v$  turns  $K$  into a Golod complex. In my talk I am going to introduce some of my recent results on combinatorial commutative algebra of minimally non-Golod complexes and give examples of simple polytopes  $P$  for which the boundary complexes  $K = \partial P^*$  are minimally non-Golod. In all these examples the corresponding moment-angle manifold  $\mathcal{Z}_P$  will be a connected sum of sphere products, two spheres in each product.

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