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Chris Peterson* (peter@math.colostate.edu), Department of Mathematics, Colorado State University, Fort Collins, CO 80523-1874. *Connections between real algebraic geometry, topology and combinatorics*. Preliminary report.

This talk will consider several interactions between real algebraic geometry, topology, and combinatorics as well as how numerical computations can be used to not only guide proofs but to also provide proofs. (Received February 14, 2012)