Real toric varieties

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Résumé

A real toric variety is a pair (T;X) where T is a real algebraic group acting on a real variety X such that their complexifaction form a complex toric variety. After introducing these objects, I will describe their combinatorics in the form of fans endowed with an involution as well as a group cohomology class. Then, I will explain how to read some topological information about the real locus of a real toric variety from its combinatorics. This talk is based on a joint work with Matilde Manzaroli.

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