## Highly symmetric polytopes and finite simple groups.

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In this two-parts talk I will first define what are abstract polytopes and then focus on those that have all rotational and reflectional symmetries (the regular ones) and those that only have rotational symmetries (the chiral ones). I will then explain how these polytopes are linked to groups with carefully chosen sets of generators. In the second part, I will give an overview of what kind of results have been obtained in the last decade on the subject.