September 3, 2014: Jun Yu (MIT), Subgroups with the same spectrum.

Given a compact Lie group G and a closed subgroup H, the dimensions of subspaces of H-invariant vectors in irreducible complex linear representations of G is called the *dimension datum* of H, which is a kind of spectral information of the subgroup. We show some invariants determined by the dimension datum, and give very different connected subgroups with the same dimension datum.