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A generalization of root systems

I will discuss the definition and properties of a notion that generalizes root systems. The resulting objects (GRS for short) include all finite root systems, Kostant root systems, and the root systems of basic classical Lie superalgebras. As a result, we obtain a unified treatment of some common properties of the above. I will also mention how GRS relate to flag manifolds (including exceptional flag manifolds) and to Nichols algebras.

This is a joint work with Rita Fioresi.