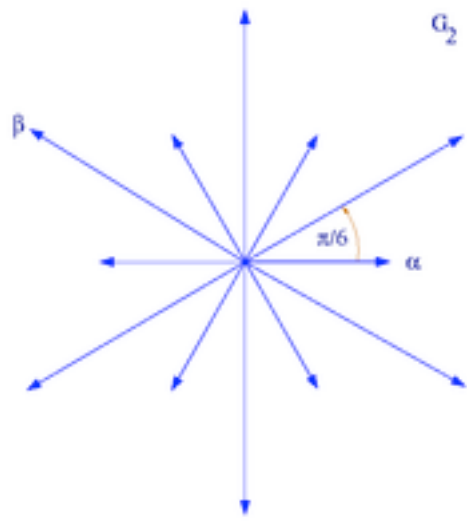
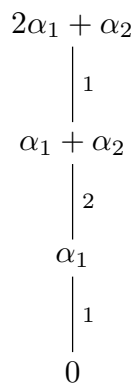


G_2

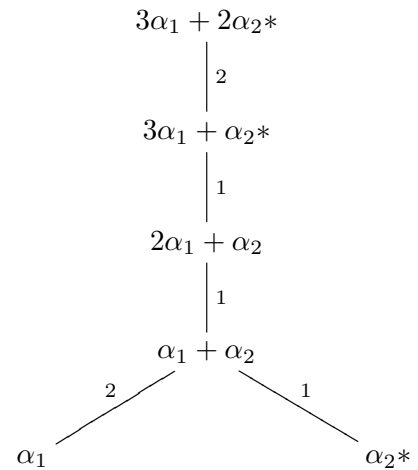


Root system

Diagram	Roots	Rep. dim. (char 0)	Rep. names	Root multipliers	Orthogonal?
	α_1	7	"standard"	2	orthogonal
	α_2	14	adjoint	8	orthogonal



Non-negative weights of standard representation



Positive roots
(Long roots marked with a *)

Subdominant weights for fundamental irreps

Rep.	Characteristic	dim of irrep	Subdominant
standard	generic	7	0 with mult. 1
standard	2	6	none
adjoint	generic	14	0 with mult. 2 ω_1 with mult. 1
adjoint	3	7	0 with mult. 1