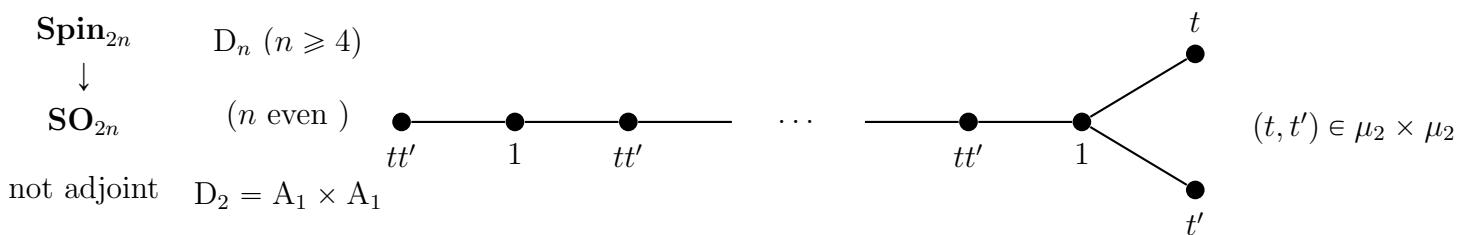
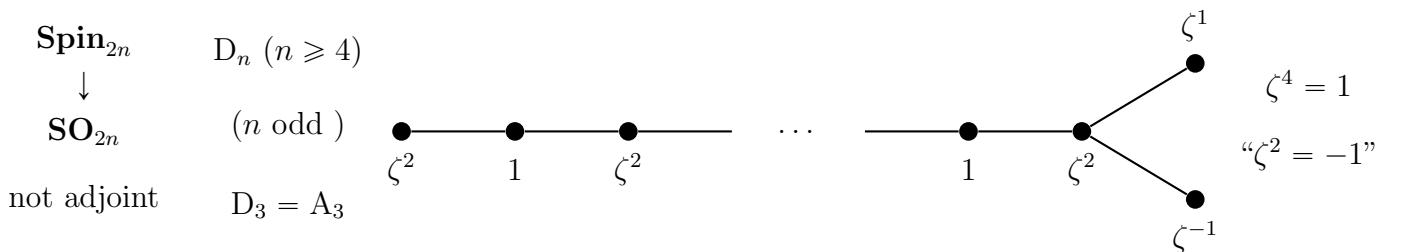
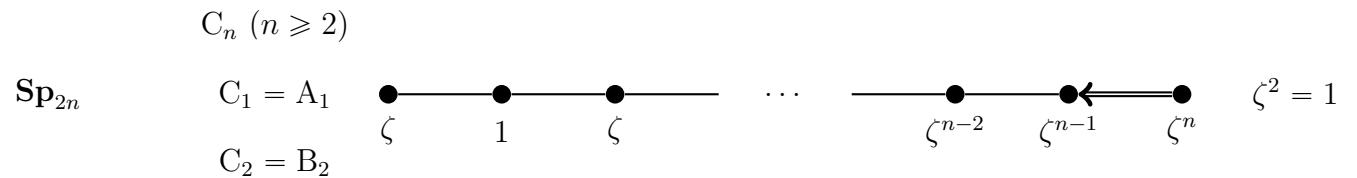
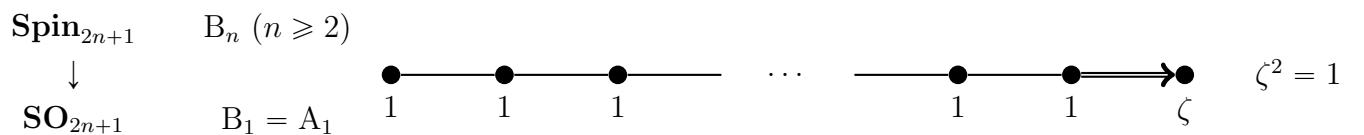
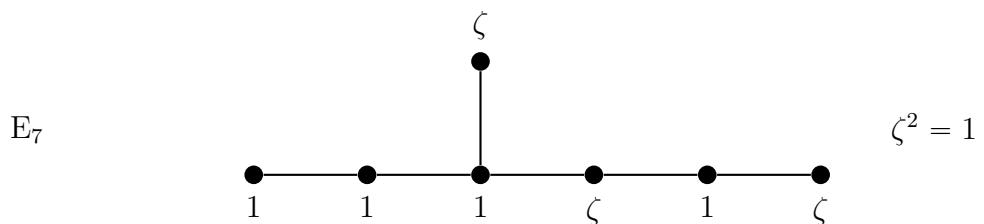
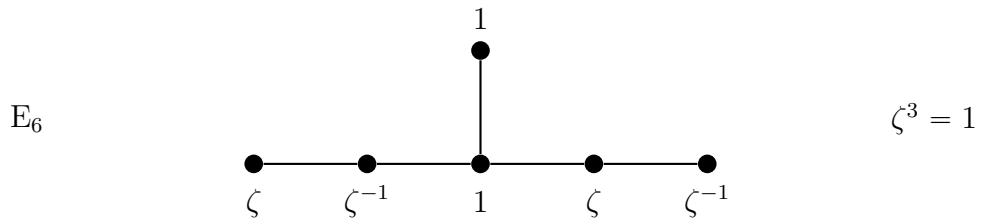


Centers of Simply Connected Semisimple Groups (via Coroot Parameterization)





E_8, F_4, G_2 : trivial center

$$\mathbf{SO}_6 \cong \mathbf{SL}_4/\mu_2 \quad (\text{D}_3 = \text{A}_3)$$

$$\mathbf{SO}_5 \cong \mathbf{Sp}_4/\text{center} \quad (\text{B}_2 = \text{C}_2)$$

$$\mathbf{SO}_4 \cong (\mathbf{SL}_2 \times \mathbf{SL}_2)/\Delta(\mu_2) \quad (\text{D}_2 = \text{A}_1 \times \text{A}_1)$$

$$\mathbf{SO}_3 \cong \mathbf{PGL}_2 \quad (\text{B}_1 = \text{A}_1)$$

$$\mathbf{SO}_2 \cong \mathbf{G}_m$$