

Diagram illustrating the structure of the W_{24} Coxeter group, showing the root system and its associated Dynkin diagram. The diagram is a tree structure with nodes labeled by their corresponding roots. The root system is E_6 , and the diagram shows the connections between the roots. The labels are as follows:

- Root 1: $-1-3-5-6-4-2$ (Root 1)
- Root 2: $-1-6-5-3-4-2$ (Root 2)
- Root 3: $-4-3-5-6-1-2$ (Root 3)
- Root 4: $-1-6-5-3-4-2$ (Root 4)
- Root 5: $-4-6-5-3-1-2$ (Root 5)
- Root 6: $-1-3-2-4-6-5-1-6-5-4-3-2$ (Root 6)
- Root 7: $-4-3-5-6-1-2$ (Root 7)
- Root 8: $10-4-3-5-6-1-2$ (Root 8)
- Root 9: $15-4-3-5-6-1-2$ (Root 9)
- Root 10: $-1-6-5-4-3-2$ (Root 10)
- Root 11: $-4-3-5-6-1-2$ (Root 11)
- Root 12: $39-4-6-5-3-1-2$ (Root 12)
- Root 13: $43-4-6-5-3-1-2$ (Root 13)
- Root 14: $17-4-6-5-3-1-2$ (Root 14)
- Root 15: $16-4-6-5-3-1-2$ (Root 15)
- Root 16: $17-4-6-5-3-1-2$ (Root 16)
- Root 17: $16-4-6-5-3-1-2$ (Root 17)
- Root 18: $17-4-6-5-3-1-2$ (Root 18)
- Root 19: $16-4-6-5-3-1-2$ (Root 19)
- Root 20: $17-4-6-5-3-1-2$ (Root 20)
- Root 21: $16-4-6-5-3-1-2$ (Root 21)
- Root 22: $17-4-6-5-3-1-2$ (Root 22)
- Root 23: $16-4-6-5-3-1-2$ (Root 23)
- Root 24: $17-4-6-5-3-1-2$ (Root 24)

The diagram shows the connections between these roots, forming a tree structure. The labels are as follows:

- Root 1: $-1-3-5-6-4-2$ (Root 1)
- Root 2: $-1-6-5-3-4-2$ (Root 2)
- Root 3: $-4-3-5-6-1-2$ (Root 3)
- Root 4: $-1-6-5-3-4-2$ (Root 4)
- Root 5: $-4-6-5-3-1-2$ (Root 5)
- Root 6: $-1-3-2-4-6-5-1-6-5-4-3-2$ (Root 6)
- Root 7: $-4-3-5-6-1-2$ (Root 7)
- Root 8: $10-4-3-5-6-1-2$ (Root 8)
- Root 9: $15-4-3-5-6-1-2$ (Root 9)
- Root 10: $-1-6-5-4-3-2$ (Root 10)
- Root 11: $-4-3-5-6-1-2$ (Root 11)
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- Root 15: $16-4-6-5-3-1-2$ (Root 15)
- Root 16: $17-4-6-5-3-1-2$ (Root 16)
- Root 17: $16-4-6-5-3-1-2$ (Root 17)
- Root 18: $17-4-6-5-3-1-2$ (Root 18)
- Root 19: $16-4-6-5-3-1-2$ (Root 19)
- Root 20: $17-4-6-5-3-1-2$ (Root 20)
- Root 21: $16-4-6-5-3-1-2$ (Root 21)
- Root 22: $17-4-6-5-3-1-2$ (Root 22)
- Root 23: $16-4-6-5-3-1-2$ (Root 23)
- Root 24: $17-4-6-5-3-1-2$ (Root 24)