

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 roots and edges labeled by simple roots.

The root system is represented by the following labels (roots) at the nodes:

- Root 1: $-1-6-4-2-3-5$
- Root 2: $4-6-1-2-3-5$
- Root 3: $-1-6-5-3-2-4$
- Root 4: $-1-6-3-2-4-5$
- Root 5: $-1-6-5-2-3-4$
- Root 6: $-1-6-5-2-3-4-5$
- Root 7: $-1-6-5-4-2-3$
- Root 8: $-2-1-6-5-3-4$
- Root 9: $-2-1-6-3-4-5$
- Root 10: $-2-1-6-5-4-2-3$
- Root 11: $-2-1-6-5-3-4-5$
- Root 12: $-2-1-6-5-4-2-3-4$
- Root 13: $-2-1-6-5-4-2-3-4-5$
- Root 14: $-2-1-6-5-4-2-3-4-5-6$
- Root 15: $-2-1-6-5-4-2-3-4-5-6-7$
- Root 16: $-2-1-6-5-4-2-3-4-5-6-7-8$
- Root 17: $-2-1-6-5-4-2-3-4-5-6-7-8-9$
- Root 18: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10$
- Root 19: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11$
- Root 20: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12$
- Root 21: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13$
- Root 22: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14$
- Root 23: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15$
- Root 24: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16$
- Root 25: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17$
- Root 26: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18$
- Root 27: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19$
- Root 28: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20$
- Root 29: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21$
- Root 30: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22$
- Root 31: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23$
- Root 32: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24$
- Root 33: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25$
- Root 34: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26$
- Root 35: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27$
- Root 36: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28$
- Root 37: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29$
- Root 38: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30$
- Root 39: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31$
- Root 40: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32$
- Root 41: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33$
- Root 42: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34$
- Root 43: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35$
- Root 44: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36$
- Root 45: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37$
- Root 46: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38$
- Root 47: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39$
- Root 48: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40$
- Root 49: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41$
- Root 50: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42$
- Root 51: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43$
- Root 52: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44$
- Root 53: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45$
- Root 54: $-2-1-6-5-4-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-2$