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Cayley graph of S_4 with adjacent-swap generators

Generators

σ_1 (12)

σ_2 (23)
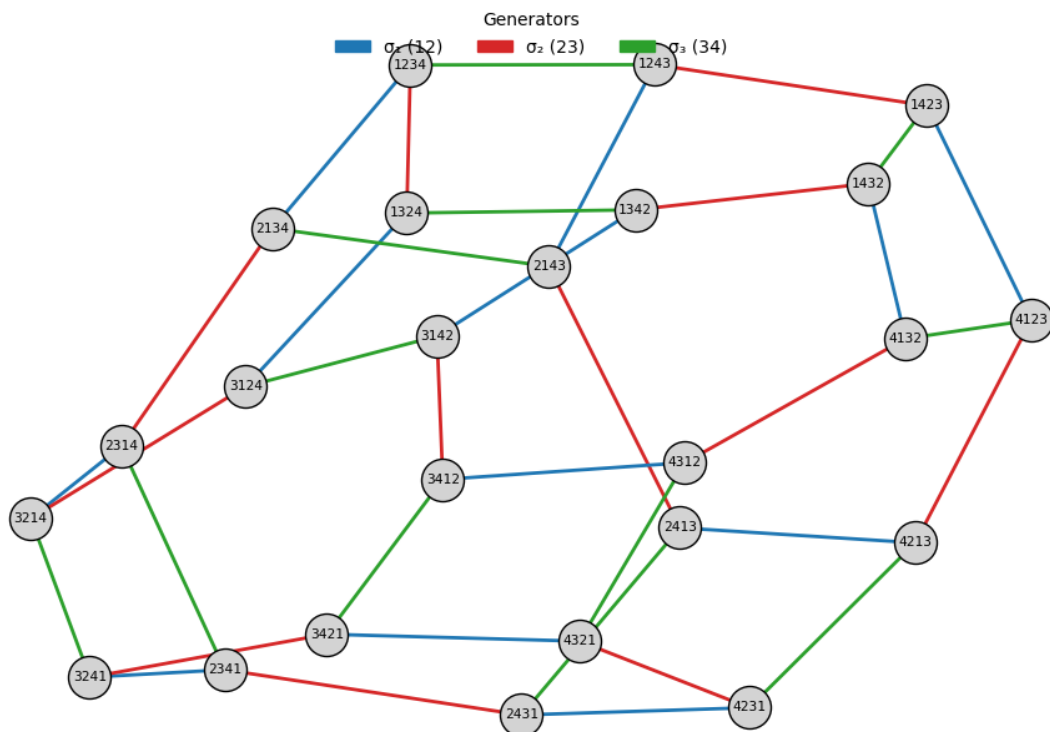
σ_3 (34)

= Hamiltonian Cycle

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Cayley graph of S₄ with adjacent-swap generators

Cayley graph of S₃ with generators σ=(12) (blue) and τ=(23) (red)
Orange path = Hamiltonian cycle (an extent on 3 bells)