

## Strongly regular graphs with the same parameters as the symplectic graph

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We consider orbit partitions of groups of automorphisms for the symplectic graph and apply Godsil–McKay switching. As a result, we find four families of strongly regular graphs with the same parameters as the symplectic graphs, including the one discovered by Abiad and Haemers. Also, we prove that switched graphs are non-isomorphic to each other by considering the number of common neighbors of three vertices.

### References

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