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Aida Abiad* (a.abiadmonge@maastrichtuniversity.nl), Tongersestraat 53, 6211LM Maastricht, Netherlands, and **Willem Haemers**, , Netherlands. *Switched symplectic graphs and their 2-ranks.*

We apply Godsil-McKay switching to the symplectic graphs over \mathbb{F}_2 with at least 63 vertices and prove that the 2-rank of (the adjacency matrix of) the graph increases after switching. This shows that the switched graph is a new strongly regular graph with the same parameters. For the symplectic graph on 63 vertices we investigate repeated switching by computer and find many new strongly regular graphs with the above parameters for $\nu = 3$ with various 2-ranks. Using these results and a recursive construction method for the symplectic graphs from Hadamard matrices, we obtain several graphs with the above parameters, but different 2-ranks. (Received September 25, 2017)