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Graphical description of the action of Clifford operators on stabilizer states MATTHEW ELLIOTT, BRYAN EASTIN, CARLTON CAVES, The University of New Mexico — We introduce a graphical representation of stabilizer states, which reduces to standard graphs for graph states. The effects of Clifford operators on stabilizer states are then translated into graph operations on the corresponding stabilizer state graphs, and we find that they are completely described in terms of loop complementation and local complementation.

Matthew Elliott
The University of New Mexico

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