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The Watchman's Walk on Block Intersection Graphs of Steiner Triple Systems

A watchman's walk, in a graph G, is a minimum closed dominating walk of G. The block intersection graph of a Steiner triple system, S, has vertices labelled by the blocks of S and an edge between two vertices if and only if corresponding blocks have a point in common. The structure of these block intersection graphs allows us to find bounds on the watchman's walk for such graphs and give constructions to achieve these bounds.