



## Split Graphs

### 1 Why

They are chordal.

### 2 Definition

A *split graph* is an undirected graph whose vertices can be partitioned into two sets such that one set induces a complete subgraph and the other set has no edges between vertices.

### 3 Properties

**Proposition 1.** *The complement of a split graph is a split graph.*

**Proposition 2.** *A graph is a split graph if and only if it is chordal and has a chordal complement.*

*Proof.* TODO

□