



Interval Graphs

1 Why

They arise in scheduling problems. They are chordal.

2 Definition

The *intersection graph* of a finite family of sets is the undirected graph on the family containing an edge between any two vertices whose intersection is non-empty. An *interval graph* is the intersection graph of a family of intervals on the real line.

2.1 Notation

3 Chordality

Proposition 1. *All interval graphs are chordal.*