



## 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.*