**Why**

They arise in scheduling problems. They are chordal.

**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.

**Notation**

**Chordality**

**Prop. 1.** *All interval graphs are chordal.*

Interval Graphs

Intervals

Real Line

Chordal Graphs  Real Order

Undirected Subgraphs  Trees  Rational Order  Real Numbers  Integral Line

Undirected Paths  Integer Divisors  Rational Numbers

Lists  Undirected Graphs  Integer Arithmetic

Set Numbers  Integer Products  Natural Additive Identity  Natural Multiplicative Identity

Finite Sets  Arithmetic  Identity Elements

Direct Products  Equivalent Sets  Natural Powers

Family Unions and Intersections  Function Inverses  Comparisons  Integer Order  Integer Sums  Natural Products

Families  Function Images  Function Composites  Orders  Integer Numbers  Natural Sums  Operations

Functions  Converse Relations  Equivalence Relations  Natural Order  Recursion Theorem

Relations  Peano Axioms

Set Products  Natural Induction

Generalized Set Dualities  Set Powers  Natural Numbers

Set Unions and Intersections  Set Dualities  Unordered Triples  Successor Sets  Intersection of Empty Set  Partitions  Set Symmetric Differences

Ordered Pairs  Pair Unions  Set Intersections  Set Complements

Pair Intersections  Set Unions  Set Differences

Unordered Pairs  Empty Set

Set Specification  Geometry

Set Inclusion

Standardized Accounts

Accounts

Deductions

Quantified Statements

Logical Statements

Statements

Identities  Sets

Names

Letters  Objects