



## GENERATED MONOTONE CLASS

### Why

#### Definition

The *generated monotone class* for a set of subsets is the smallest monotone class containing the set of subsets. We must prove the existence and uniqueness of this monotone class

**Prop. 1.** *The intersection of a non-empty set of monotone classes on the same base set is a monotone class.*

*Proof.* TODO

□

#### Notation

TODO

