



## Generated Monotone Class

### 1 Why

### 2 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

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

*Proof.* TODO

□

#### 2.1 Notation

TODO