

## Generated Monotone Class

## 1 Why

## 2 Definition

The generated moonotone 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