Why

TODO: changed to subset system

Closure under monotone limits is a weaker condition than that included in the definition of sigma algebras, but is sufficient if the set is also an algebra. TODO: why

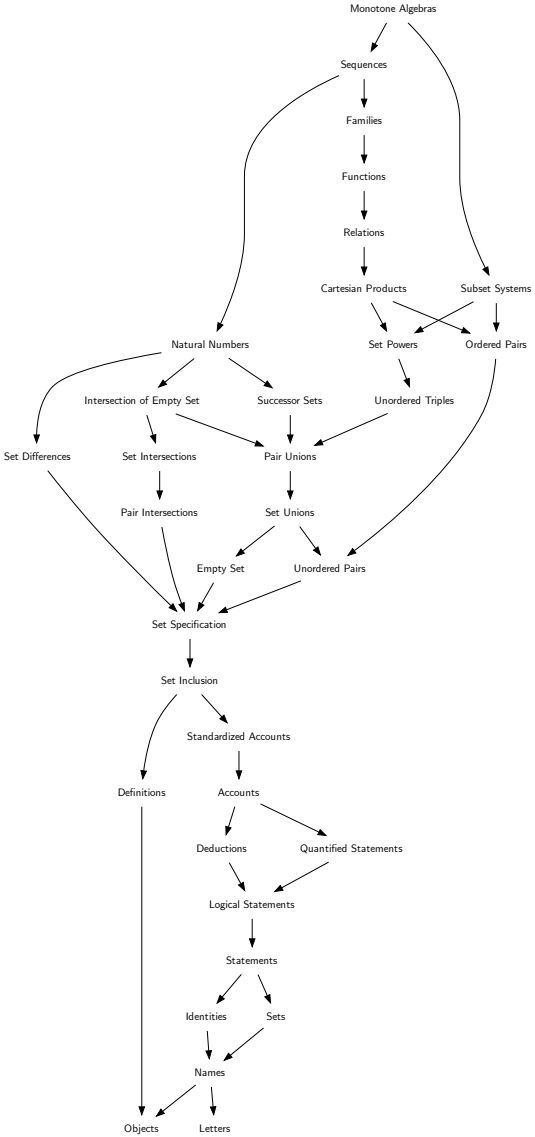
Result

If a subset algebra is a monotone space, then it is a countably summable subset algebra.

Proposition **1.** *A subset algebra is a countably summable if either:*

1. *the limit of a nondecreasing sequence of distinguished sets is distinguished*
2. *the limit of a nonincreasing sequence of distinguished sets is distinguished.*

Proof. TODO □


Monotone Algebras
Sequences
Families
Functions
Relations
Cartesian Products
Subset Systems
Natural Numbers
Set Powers
Ordered Pairs
Intersection of Empty Set
Successor Sets
Unordered Triples
Set Differences
Set Intersections
Pair Unions
Pair Intersections
Set Unions
Empty Set
Unordered Pairs
Set Specification
Set Inclusion
Standardized Accounts
Definitions
Accounts
Deductions
Quantified Statements
Logical Statements
Statements
Identities
Sets
Names
Objects
Letters