Why

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Definition

A *statistical model* is a family (see Families) of probability measures. A statistical model may just as well be called a *probabilistic model.*[2] We call the index set the *parameter set, set of parameters* or *parameters.*

Notation

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[1]Will be included in future editions.

[2]And may well be, in future editions.

Statistical Models

Probability Measures

Event Probabilities

Measures

Probability Distributions

Extended Real Numbers

Intervals

Real Limits

Real Line

Real Summation

Real Order

Real Sequences

Geometry

Real Numbers

Rational Numbers

Natural Summation

Integer Arithmetic

Probability Events

Family Operations

Natural Multiplicative Identity

Natural Additive Identity

Probability Outcomes

Sequences

Subset Algebras

Families

Algebras

Identity Elements

Arithmetic

Probability

Set Operations

Cardinality

Operations

Natural Exponents

Integer Products

Common Sense

Functions

Natural Products

Integer Sums

Natural Sums

Integer Numbers

Equivalence Relations

Recursion Theorem

Relations

Peano Axioms

Cartesian Products

Subset Systems

Natural Induction

Ordered Pairs

Set Powers

Natural Numbers

Partitions

Unordered Triples

Intersection of Empty Set

Successor Sets

Set Intersections

Pair Unions

Set Symmetric Differences

Pair Intersections

Set Unions

Set Complements

Unordered Pairs

Empty Set

Set Differences

Set Specification

Set Inclusion

Standardized Accounts

Accounts

Deductions

Quantified Statements

Logical Statements

Statements

Sets

Identities

Names

Letters

Objects