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PHYS-CAT

seminars 03:

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Logic and Topos

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Theory

A topos is a category that has the

following two properties: All limits taken

over finite

index categories

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Theory. Every object has a power object. This plays the role of the powerset in set theory.

Topos -

Wikipedia

Topos theory has long looked like a possible 'master theory'

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Theory in this area.

Summary. The topos concept arose in algebraic geometry, as a consequence of combining the concept of sheaf and closure under categorical operations. It plays a certain

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Theory
definite role in
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application' is
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Category theory
may be

understood as a
general theory
of structure.

The main idea of
the category-
theoretic
approach is to
describe the
properties of
structures in
terms of

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morphisms

between objects,
instead of the desc
ription in terms of
elements and membe
rship relations.

An Introduction
to Topos Theory

We start by
recalling some
basic denitions
from the course
Category Theory

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and Topos

Theory, which is a prerequisite for this course. For motivation, we start by exhibiting the elementary notions at work in the example of sheaves on a topological space.

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Topos Theory -
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In a series of
papers Isham
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Linden 1994,
Isham 1994,
using Topos
theory Isham
describes a
logical
framework in

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Theory the
probabilities of
the theory are
interpreted in a
context in which
every consistent
set of histories
is taken into
consideration.

Topoi for
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Theory of lecture notes explaining topos theory and its application in physics.

References (42)

Figures (0) [1]

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perspective on the Kochen-Specker theorem.

1. Mathematical development.

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(Imperial Coll.,
London), J.

Butterfield . e-
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ph/9803055 [2]

Lectures on
Topos Quantum
Theory - INSPIRE
Topos theory is
the part of
category theory
that studies
categories which

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Theory
are toposes.

This includes in particular Grothendieck toposes, i.e. categories of sheaves. There are always two ways to think of topos theory: as being about logic. about geometry.

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Contents Idea
0.1. There are
various

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Theory
different perspectives on the notion of topos. One is that a topos is a category that looks...

Definitions 0.2.

Elementary toposes. This is the notion relevant for applications in geometry and

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Theory
geometric

logic,...

Properties 0.3.

Every topos is
an extensive ...

topos in nLab

This is the
notion of the
temporal topos
theory

abbreviated as t-
topos theory
developed in [

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1, 2, 3, 4, 5] .

For space and time, we associate a combined sheaf $\omega = (\kappa, \tau)$ where space sheaf κ and time sheaf τ are considered to be t-entangled in the sense that both sheaves behave as one sheaf.

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In More Category
Theory: The
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Theory, we defined the Grothendieck topos as something like a generalization of the concept of sheaves on a topological space. In this post we generalize it even further into a concept

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Theory
so far-reaching
it can even be
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Definition of
the Elementary
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Theory presents the foundations of this theory, using the language of weak Kan complexes introduced by Boardman and Vogt, and shows how existing theorems in algebraic topology can be reformulated and

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generalized in
the theory's new
language. The
result is a
powerful theory
with
applications in
many areas of
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Higher Topos
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A topos (plural topoi, toposes) is a category that behaves like the category of sheaves of sets on a topological space. Topos theory consists of the study of Grothendieck topoi, used in algebraic

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Geometry, and
the study of
elementary
topoi, used in
logic.

Newest 'topos-
theory'

Questions -

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The advantage of
this method is
that it does not

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Theory
require the underlying topos to be cocomplete. The resulting model category structure gives rise to a model of homotopy type theory with identity types, Σ - and Π -types, and functional extensionality.

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We apply the
method to the
effective topos
with the
interval object
 $\nabla 2$.

A homotopy-
theoretic model
of function
extensionality
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I am teaching
myself topos

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Theory because I find it fascinating and I enjoy the challenge. I'm not sure where I get this notion from but I'm given to understand that algebraic geometry plays a rôle in topos theory. I did a

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Theory on
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