Mainly conjectures. Is right complete, C small C - SCOPI H I right continuous (unique up to natural equivalence).

so Som is to pre right complete category Large theories in the cat of cat's .: every possible limit Sort is in some seuse the power set.; so one con un it for higher order theories. Grothendieck topology is ordinary topology, but with as new power set functor. Why power sel? Think of the closed cat of ordered set. Then the analogue of Scori is 2 Not

(1 analogue of S), power set if A discrete Triple on ordered sets. (not really).

(for Seally Server) adj instead of I makes it covariant. (Corresponds to covariant power set with direct image).

S DP (Power set will direct image, is a monad). The algebras: right complete lattices. (the morphisms preserve aubihary sup's). Fre als: Sets with relations. This suggests the following: The Klershi is just putting in more functions. Take. e.g. Po (set of fruite subsets) E-9- cat of cat

COCONTINUOM (SCOP) SDOP)

COCONTINUOM (SCOP) SDOP)

E ST XID OPP

Objects in here are simply pairings of cohn)

a generalized matrix multiplication

This has been looked at in ring theory. Monida thery:

These things are just simodules. Frayd shared the same to

held for theories. - Or take top spaces and sheaves.

Every moned in sets had an algebraic part.

The composition PEP carries a

moned structure; it describes Rolled lattices;

(dishibutive law xx Vs. = Vxxs. required).

Close connection with Hausdorff or and Rolled

There is Rolled

This was to prepare the way for a similar monad in the cat of cat's, to get topos.

Given two cats, both relative over some common closed cat, and an object S common to both

R(-, s) Cat

have some special properties (", analytical")

Ord Vect Ord V(-, R) & Top -, R)

Gus the integration theory moned on Top. The previous monad & is $x \rightarrow R(S^{x}S)$

I don't know what the algebras are. If I has small how sets, I have the Youeda mapping I orr - St

restricting along this, I obtain a functor $R(S^{*},S) \rightarrow S^{*}$

The same procedure for the measur case gives O(c(x,R),R) - Meas(X,R) The Riesz repr. thou gives conditions when this is an equivalence.

Is then a Riesz theorem for R(SX,S) -> SX OPP

) fam = lim (-18) m 8)

(the canonical limit).

One can speak of the small part of a monad in the cal of cats $TME = \bigcup R(S^c, X) \subseteq TX$

T is a monad I conjectu the dir of over this is right complete categories (with chosen 1 mit functors). Dir(X) - St Jackon Marchin (Isbell)

Significant (Isbell) An algebra J.... Presentations. Gran a pair of small cats R = S Corr Cocq in R · Gothendreck topology tor small cal's: take the shears with the canonical topology. - is the tople. The hope in the cat of cat's has the following properly that $S(S^{(r)})^{op} \longrightarrow X^{or}$ then px - 9 T; so the p is determined by of we get complete atomic Boolean alg's as alg's.