Lanvere We think it is necessary to discuss these questions in a serious way.

People practice a position on this point, and an prisoners of reachonan pholosophy it they don't.

One part that should be discussed further, points raised in my tak in Durham / Milano last summer, under " Lug. of Math es Looking at notes people took: Math. Logie. "

Made some misformidettion.

Did not choose words well

Difficulty of communication ... Cultural distortion: formulations were changed. . more dogmetic

formulation, for two different reasons.

Leading idea in these talks:

There are certainly things that we are against. On the other hand, we cannot arrive at judgement on basis of deduction from but only by suber. some formulation,

We want to reject ?

thinking about thinking as an end in itself * obscure writing use of symbols to hide Concepts

Mathematics investigating space forms and quantilative relationships and the -) relations between the two.

thinking about -1-, in order to find laws in it in order to guide and clarify the learning, use and development

antagonistic Contradiction (as trends),

Between these two we have non- antigonistic contradiction, but rather the Conhadrehon leading to progress in science.

"Lower pant" divides into short for Logic of Formal Deduction. or Science of Formed Deduction.

of truth of properties.

Lee science of conceptual construction. I referred to "upper part" as mathematics or the object of mether (lower part then subject of mathematics.) Nearly every piece of math involve some usuall. an advance in both.

I listed subjects that to a large measure are parts of subjects of math, not object of meth.

Abstrateg...
Gen. top...
Cad. Theory...
Muth Loy.
Set Thing...
Funct and...

They really should be one subject.

The fragmentation store of these of should be climinated.

At present time, cat theory have subsumed these subjects in so far as they belong to logic of math (not in so far as they belong to math in proper sense).

At same time, cat theory is not identical with lower, because "may discover more principles.

Number thery?
[Ib Madre : Ver: we use it to count space invarrants.].
Unity, not an eclectre bag of tricks.

The science of thinking about meth. (-logic of meth.)

must address itself both to LFD Lcc.

Mathematical logic is only LFD.

^{*} or the logic of mathematics"

the flay of LFD in order to oppose 1) Lee, especially ...

2) The purpose (= acting as a clarifying ...).

Springs from one sidedness. Could also imagin the other one-sidedness Lee, but not the main danger at the moment). Cat theory is mainly Lec

[Tierny: much of it is in the reject column] FWL: Yes.

In Mah Lojie Me concept seem to class from the 149. (LFD one-sited ness). Cal. Them viewpoint often sees to truth about an april a secondary Min, the object /concept as primary.

The exptence of Encl. Geom. is more important than any specific Thun in it. The fact that there must be a Continuen is more important than the way you construct LFD = lc. it , or deduce

Still: LFD is overestimated, Lee underestimend, ne still have to fight for that, light to show its importance.

Math. Logic Vs. Concepted scrence

which is the leading aspect? In a certain way have to claim Concepted recence is the leading aspects. There could be no discussion or 'truth' or 'falsily' of addition, , and other concepts. interportion

Shown by the fact that cat theory includes logic. The Theory' in The sense of cal. can be presented or represented by axioms and relections,

The contradiction. LFD = LCC is a reflection of. Contradiction between math and logic of math.

Sc. of deduction & calculation sc. of concept: formation.

is more basic but in the practice, it is Theoretically

all though many people raid they were equal (es. Browners, Bishop: space is nothing but nat. nois. i.e. nothing but thoughts.).

In mathematics, the nat. no. does not exist as an object

If exists in logic of math. I agree with Browner Mari IN

1s subjection, In combast to the continuum which
is objective. Leads to "space filling curves" which
do not exist.

Cf. Arnal - Jensen paper. I agree

with that position.

"All our possible futin calculations an here" is not true

Question of classifying boposes' is to objective. The subjective.

Mistakes I made in a paper on quality and quantity.

Question distinction between. _classif topos, and special lopos.

Construction of it depens (till now) on NNO.

Guidelines to be drawn from this:

We should have the confidence that we can oppose obscure writing: have enough math knowledge and philosophical guidelines to get behind.

Reflect The whole picture into Lee by across?

Space Quantity: Four kinds of relations

How schem for a category then morphist is define cod. So unity synthetic and analytic geom.

Should lead drast-cally to simplifeation of high school mathing without using any quantifiers. Entirely Cartesian logic.

Process of clarifying Enchal, axim has by no means, been finished. Deepen this to diff exim ! Every object has a measure (length, and, ...) (non-measurable sets again only, by, W).

Consistent: we cannot out of it construct IN.

The integral exists in the red world. In 65 = Q2

should be postulated (not defined by an approximation process). That integras can be approximated is a meta
theorem.

Cat theory could serve directly in mathematics, without

Not only Lee dominates our Leo.

Dialectrical logic will have to dominate over intritor

Thanks to Chris, we know that lattice of subtopos.

is dual of Heybry alg., so rather reject:

A 17 A ### = 0

Dialectical logic dominates over intritonistic.
In dialectes * is not valid ?

Jugal: Finishie methods in metamater is. But only formulae were really there.

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