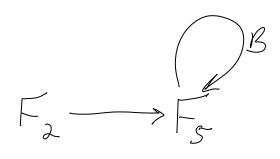
Pulling back au	tomorphisms
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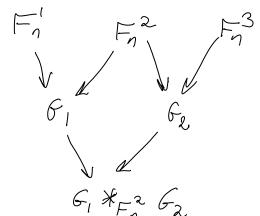
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Pulling back automorphisms?

Nah; Perhaps The right thing to study are groups G, along with a pair

of maps 7,0:Fn -> & ?



Maybe it is {Quotients of Fn},
with the operations I.e., Fn >>> G

(6,,62) - G,x62

and pullbacks - compositions - with maps

Fm ->Fn

and also, imposing the relations $x_i = x_j$. For any pair of generators $x_i \nmid x_j$ (and reduction to the image of F_{n-2} ?)

Nyit; I should be talking about "groups with a peripheral system?

stion - what is the finite type completion of the free quandle on some generators?

$$(x19)1h = (x1h)1(91h)$$

$$(x19)1h = (x1h)1(91h)$$

In groupland this is
$$h^{-1}g^{-1}Xgh = (h^{-1}g^{-1})h^{-1}Xh)(h^{-1}gh)$$

$$x = x$$

Guess: [x,j]:=x19 makes a Lie algebra, or at least a Leibnitz algebra, Whatever that may be.

$$\left(\left(\overline{X} + I \right) \right) \left(\left(\overline{S} + I \right) \right) \right) \left(\left(\overline{S} + I \right) \right) = \left(\left(\overline{X} + I \right) \right) \left(\left(\overline{S} + I \right) \right) \left$$

$$deg 2: \overline{X19} + \overline{X11} = \overline{X11} + \overline{X19}$$

There's also
$$(1+\overline{x})N(1+\overline{x})=1+\overline{x}$$

(bilinear & varishes on diagonal ==(x+y)/(x+y) = x1x+y1y + x1y+y1x)
muns anti-symmetric: = x1y+y1x

An expension: xx 1->1+x for the generators, $(SC, y) \xrightarrow{1} X1y$ Does it annihilate the quandle relation? $(\times 19)14 = (\times 14)1(914)$ The only remaining. term is in deg y: O = (x1/1)1(91/1)[[x, h], [], []] fails ? Question Let 6 be a group and Q its group-quarelle Is it true that $\mathcal{M}(Q^{ff}) = G^{ff}$ 2