

touch last of data at day 02 wednesday, month 02 february, year 2011, hour
18:00 after noon

Short: (on CHIC 05.add1)

Before, [Lukacs's-style] duality was presented. Here is a later add:

7. n -fold lax, coherence.

7.1. Some presences of laxness are:

- (1) n -fold laxness: n -fold [deduce, compose], ref Sec 7.1–7.6 of [borceux1],
- (2) relators (named “distributors” in Sec 7.7–7.9 of [borceux1]).

Coherence enables n -fold laxness. CHIC search common, laxness, coherence, composition, rime, motives, but no nonsense.

7.2. Exe 7.10.6, ref [borceux1] Monads. Behold lax-tight 2-functor $F : 1 \rightarrow 2\text{-Cat}$ from the tight 2-category $1 = (\{*\}, \{1_*\}, \{i_* = 1_{1_*}\})$ to the tight 2-category 2-Cat of all small tight 1-categories. Deduce $(F1_* : F* \rightarrow F*, \delta_* : 1_{F*} \Rightarrow F1_*, \gamma_{1_*, 1_*} : F1_* \circ F1_* \Rightarrow F1_*)$ is a “monad” as named in Def 4.1.1 of [borceux2].

7.3. Exe 7.10.7, ref [borceux1] Monoidal. Behold pseudo-tight 2-category \mathcal{A} with single object $*$. Deduce $\mathcal{A}(*, *)$ with the composition $\otimes = c_{*, *, *}$ of 1-cells and 2-cells is a “monoidal category” as named in Def 6.1.1 of [borceux2].

[borceux1] author_Francis Borceux_ short_Handbook of Categorical Algebra 1_ refer_Cambridge University Press, (1994), Encyclopedia Of Mathematics And Its Applications 50_

[borceux2] author_Francis Borceux_ short_Handbook of Categorical Algebra 2_ refer_Cambridge University Press, (1994), Encyclopedia Of Mathematics And Its Applications 51_

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Version: SKS 1.0.10

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