

QUESTION 2210. What is at the node “other”?

Trying to answer this question:

LEMMA 2211.  $(\Phi_*(\text{RLD})_{\text{out}})\perp = \Omega^{\text{FCD}}$ .

PROOF. We have  $(\text{RLD})_{\text{out}}\Omega^{\text{FCD}} = \perp$ .  $x \not\sqsubseteq \Omega^{\text{FCD}} \Rightarrow (\text{RLD})_{\text{out}}x \sqsupseteq \text{Cor } x \sqsupseteq \perp$ .

Thus  $\max\left\{\frac{x \in \text{FCD}}{(\text{RLD})_{\text{out}}x = \perp}\right\} = \Omega^{\text{FCD}}$ .

So  $(\Phi_*(\text{RLD})_{\text{out}})\perp = \Omega^{\text{FCD}}$ . □

CONJECTURE 2212.  $(\Phi_*(\text{RLD})_{\text{out}})f = \Omega^{\text{FCD}} \sqcup (\text{FCD})f$ .

The above conjecture looks not natural, but I do not see a better alternative formula.

QUESTION 2213. What happens if we keep applying  $\Phi^*$  and  $\Phi_*$  to the node “other”? Will we this way get a finite or infinite set?