Conjecture 796. $\operatorname{Compl} f = f \setminus^* (\Omega^{\operatorname{Src} f} \times^{\mathsf{RLD}} \top^{\mathfrak{F}(\operatorname{Dst} f)})$ for every reloid f.

By analogy with similar properties of funcoids described above:

Proposition 797. For composable reloids f and g it holds

1°. $\operatorname{Compl}(g \circ f) \sqsupseteq (\operatorname{Compl} g) \circ (\operatorname{Compl} f)$
2°. $\operatorname{CoCompl}(g \circ f) \sqsupseteq (\operatorname{CoCompl} g) \circ (\operatorname{CoCompl} f)$.

Proof.

1°. $(\operatorname{Compl} g) \circ (\operatorname{Compl} f) \sqsubseteq \operatorname{Compl}((\operatorname{Compl} g) \circ (\operatorname{Compl} f)) \sqsubseteq \operatorname{Compl}(g \circ f)$.
2°. By duality.

□

Conjecture 798. For composable reloids f and g it holds

1°. $\operatorname{Compl}(g \circ f) = (\operatorname{Compl} g) \circ f$ if f is a co-complete reloid;
2°. $\operatorname{CoCompl}(f \circ g) = f \circ \operatorname{CoCompl} g$ if f is a complete reloid;
3°. $\operatorname{CoCompl}((\operatorname{Compl} g) \circ f) = \operatorname{Compl}(g \circ (\operatorname{CoCompl} f)) = (\operatorname{Compl} g) \circ (\operatorname{CoCompl} f)$;
4°. $\operatorname{Compl}(g \circ (\operatorname{Compl} f)) = \operatorname{Compl}(g \circ f)$;
5°. $\operatorname{CoCompl}((\operatorname{CoCompl} g) \circ f) = \operatorname{CoCompl}(g \circ f)$.