PROOF.

$$\begin{gathered} S^*(S^*(f)) = \\ \bigsqcap\left\{ \frac{\uparrow^{\mathsf{RLD}} S(R)}{R \in \operatorname{xyGR} S^*(f)} \right\} \sqsubseteq \\ \bigsqcap\left\{ \frac{\uparrow^{\mathsf{RLD}} S(R)}{R \in \left\{ \frac{S(F)}{F \in \operatorname{xyGR} f} \right\}} \right\} = \\ \bigsqcap\left\{ \frac{\uparrow^{\mathsf{RLD}} S(S(R))}{R \in \operatorname{xyGR} S^*(f)} \right\} = \\ \bigsqcap\left\{ \frac{\uparrow^{\mathsf{RLD}} S(R)}{R \in \operatorname{xyGR} S^*(f)} \right\} = \\ S^*(f). \end{gathered}$$

So $S^*(S^*(f)) \sqsubseteq S^*(f)$. That $S^*(S^*(f)) \sqsupseteq S^*(f)$ is obvious. □

COROLLARY 908. $S^*(S(f)) = S(S^*(f)) = S^*(f)$ for every endoreloid f.

PROOF. Obviously $S^*(S(f)) \sqsupseteq S^*(f)$ and $S(S^*(f)) \sqsupseteq S^*(f)$.
But $S^*(S(f)) \sqsubseteq S^*(S^*(f)) = S^*(f)$ and $S(S^*(f)) \sqsubseteq S^*(S^*(f)) = S^*(f)$. □

CONJECTURE 909. $S(S(f)) = S(f)$ for

1°. every endoreloid f;
2°. every endofuncoid f.

CONJECTURE 910. For every endoreloid f

1°. $S(f) \circ S(f) = S(f)$;
2°. $S^*(f) \circ S^*(f) = S^*(f)$;
3°. $S(f) \circ S^*(f) = S^*(f) \circ S(f) = S^*(f)$.

CONJECTURE 911. $S(f) \circ S(f) = S(f)$ for every endofuncoid f.