

Some Galois connections

For every funcoid f we have

$$(\text{FCD})(\text{RLD})_{\text{in}} f = f.$$

(FCD): $\text{RLD}(A; B) \rightarrow \text{FCD}(A; B)$ is the lower adjoint of
(RLD)_{in}: $\text{FCD}(A; B) \rightarrow \text{RLD}(A; B)$. Thus

1. $(\text{FCD})\sqcup S = \sqcup \{(\text{FCD})f \mid f \in S\}$;
2. $(\text{RLD})_{\text{in}}\sqcap T = \sqcap \{(\text{RLD})_{\text{in}}f \mid f \in T\}$

for every set S of reloids or T of funcoids.