

Q-R-glues^{11,40}

g glues $Ia:Qa \dashrightarrow Ia:Rb$
 $\equiv_{\text{def}} \{Ia\} \leftarrow\leftarrow g == \{Ib\} \& g$ is Qa - Rb -pre-preserving on $\{Ib\}$
 $\& \text{Inj}(\{e:E| \uparrow(e \in_b Ib)\}; E; g)$
 $\& (\forall e:E(Ib). f(g(e)) = Ib(e))$

clarification:

$\text{Q-R-glues}(es; Ib_valtype; g; f; Ia; Qa; Ib; Rb)$
 $\equiv_{\text{def}} \text{weak-antecedent-surjection}(es; \{Ib\}; \{Ia\}; g) \& \text{Q-R-pre-preserving}(es; g; \{Ib\}; Qa; Rb)$
 $\& \text{Inj}(\{e:\text{es-E}(es)| \uparrow(e \in_b Ib)\}; \text{es-E}(es); g)$
 $\& (\forall e:\text{es-E-interface}(es; Ib). f(g(e)) = Ib(e) \in Ib_valtype)$