

## **anti\_sym\_shift**<sup>13,42</sup>

$\forall A, B:\text{Type}, R:(A \rightarrow A \rightarrow \mathbb{P}), S:(B \rightarrow B \rightarrow \mathbb{P}), f:(A \rightarrow B).$   
 $\text{Inj}(A;B;f)$   
 $\Rightarrow \text{RelsIso}(A;B;x,y.R(x,y);x,y.S(x,y);f)$   
 $\Rightarrow \text{AntiSym}(B;x,y.S(x,y))$   
 $\Rightarrow \text{AntiSym}(A;x,y.R(x,y))$