

atom-free-fpf^{0,22}

$\forall A, B:\text{Type}.$
 $\text{AtomFree}(\text{Type};A)$
 $\Rightarrow \text{AtomFree}(\text{Type};B)$
 $\Rightarrow (\forall eq:\text{EqDecider}(A).$
 $\text{AtomFree}(\text{EqDecider}(A);eq)$
 $\Rightarrow (\forall f:a:A \text{ fp} \rightarrow B.$
 $(\forall a:A. \text{AtomFree}(A;a))$
 $\Rightarrow \forall a \in \text{dom}(f). x=f(a) \Rightarrow \text{AtomFree}(B;x)$
 $\Rightarrow \text{AtomFree}(a:A \text{ fp} \rightarrow B;f)))$