Inference at $*$ 1 1 2 1
 of proof for Lemma fun_with_inv_is_bij:

1. $A$ : Type
2. $B$ : Type
3. $f$ : $A \rightarrow B$
4. $g$ : $B \rightarrow A$
5. $(g \circ f) = \mathrm{Id}\{A\}$
6. $(f \circ g) = \mathrm{Id}\{B\}$
7. $b$ : $B$

$\vdash f(g(b)) = b$
 by ((With $b$ (EqHD 6))
 CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n
 ),(first_nat 4:n)) (first_tok :t) inil_term)))·

1:

6. $b$ : $B$
7. $(f \circ g)(b) = \mathrm{Id}\{B\}(b)$

$\vdash f(g(b)) = b$

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