Inference at $*$ 1 1 1
 of proof for Lemma ax_choice:

1. A : Type
2. B : Type
3. Q : $A \to B \to \mathbb{P}$
4. g : $x{:}A \to y{:}B \times Q(x,y)$
5. x : A

$\vdash Q(x,(g(x)).1)$
 by ((With x (D 4))
 CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n
 ),(first_nat 4:n)) (first_tok :t) inil_term)))·

 1:

 6. y : $y{:}B \times Q(x,y)$
 7. $y = g(x)$
 $\vdash Q(x,(g(x)).1)$
 .

---

http://www.nuprl.org/FDLcontent/p0_942988_/p121_84580_{ax_choice}1_1_1.html