Inference at $*$
 of proof for Lemma implies_antisymmetry:

$\vdash \forall P, Q{:}\mathbb{P}.\ (P \Rightarrow Q) \Rightarrow (Q \Rightarrow P) \Rightarrow (P \iff Q)$
 by ((HypBackchain)
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
 ),(first_nat 3:n)) (first_tok :t) inil_term)))·

 .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_97953_{implies_antisymmetry}.html