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

1. $A : \mathbb{P}$
2. $B : \mathbb{P}$
3. A
4. $A \iff B$

$\vdash B \vee (\neg B)$

 by ((((DNth 1 0)
 CollapseTHENM (BackThruHyp 4))·)
 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_102437_{iff_preserves_decidability}1_1.html