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

1. T_1 : Type
2. T_2 : Type
3. r_1 : $T_1 \to T_1 \to \mathbb{P}$
4. r_2 : $T_2 \to T_2 \to \mathbb{P}$
5. $T_1 = T_2$
6. $\forall x,y{:}T_1.\ r_1(x,y) \iff r_2(x,y)$

$\vdash \forall x,y{:}T_1.\ \{r_1(x,y) \Leftarrow r_2(x,y)\}$

```
  by ((((((Unfold `guard` 0)
  CollapseTHENM (UnivCD))·)
  CollapseTHENM (BackThruHyp 6))·
    )
  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_359040_/p121_96059_{wellfounded_functionality_wrt_iff}1_1_2.html