

Inference at \*  
of proof for Lemma iff\_transitivity:

```
⊢∀P,Q,R:ℙ. (P ⇔ Q) ⇒ (Q ⇔ R) ⇒ (P ⇔ R)
  by (((GenUnivCD
    CollapseTHEN (Auto_aux (first_nat 1:n) ((first_nat 1:n
      ),(first_nat 3:n)) (first_tok :t) inil_term))))·
    CollapseTHEN (HypBackchain))·
```