```
less_less_eq_trans  THM

⊢  ∀m,n,x:ℕ. m<n & n≤x ⇒ m<x
  by RewriteOfThm
     Thm* all
          (λm:hnum. all
                    (λn:hnum. all
                              (λp:hnum. implies
                                        (and(lt(m,n),le(n,p))
                                        ,lt(m,p)))))
     {hless_less_eq_trans}
     (SimpsetC [‘hol_to_nuprl‘;‘bequal‘])
END
```