```
less_cases_imp  THM

⊢  ∀m,n:ℕ. ¬m<n & ¬m = n ⇒ n<m
  by RewriteOfThm
     Thm* all
          (λm:hnum. all
                    (λn:hnum. implies
                              (and(not(lt(m,n)),not(equal(m,n)))
                              ,lt(n,m))))
     {hless_cases_imp}
     (SimpsetC [‘hol_to_nuprl‘;‘bequal‘])
END
```