```
not_num_eq  THM

⊢  ∀m,n:ℕ. ¬m = n ⟺ m+1≤n ∨ n+1≤m
  by RewriteOfThm
     Thm* all
          (λm:hnum. all
                    (λn:hnum. equal
                              (not(equal(m,n))
                              ,or(le(suc(m),n),le(suc(n),m)))))
     {hnot_num_eq}
     (SimpsetC [‘hol_to_nuprl‘;‘bequal‘])
END
```