```
odd_add  THM

⊢  ∀m,n:ℕ. odd(m+n) ⟺ ¬(odd(m) ⟺ odd(n))
  by RewriteOfThm
     Thm* all
          (λm:hnum. all
                    (λn:hnum. equal
                              (odd(add(m,n))
                              ,not(equal(odd(m),odd(n))))))
     {hodd_add}
     (SimpsetC [‘hol_to_nuprl‘;‘bequal‘])
END
```