```
mod_add_guard  THM

⊢  ∀x,y:ℤ, n:ℕ+ . ((x+y) mod n) = mod_guard((x mod n)+(y mod n);n)
  by Auto THEN (Unfold `mod_guard` 0)
     THEN
     (BackThru
      Thm* ∀x,y:ℤ, n:ℕ+ . ((x+y) mod n) = (((x mod n)+(y mod n)) mod n)
      {mod_add})
END
```