```
mod_mul_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_mul})
END
```