```
mod_bounds  THM

⊢  ∀a:ℤ, n:ℕ+. 0≤(a mod n) & (a mod n)<n  by Auto THEN Def of a mod n
|
1. a : ℤ
2. n : ℕ+
⊢  if 0≤₂a→ a rem n ; ((-a) rem n)=₂0→ 0 else n-((-a) rem n) fi<n
  by SplitOnConclITEs THEN BoundRem Auto 0
END
```