Inference at $*$ 1 1 2
 of proof for Lemma absval_eq:

1. $x : \mathbb{Z}$
2. $y : \mathbb{Z}$
3. $0 \leq x$
4. $y < 0$

$\vdash (x = (\text{-}y)) \iff x = \pm\, y$

```
  by ((((((Unfold ‘pm_equal‘ 0)
  CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
    ),(first_nat 3:n)) (first_tok :t) inil_term)))·)
  CollapseTHEN (Try (D (-1))))·)

     CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t
    ) inil_term)))·

    .
```