

Inference at *
of proof for Lemma equal-bnot:

```

⊢∀x, y:ℬ. (x = (¬by)) ⇔ (¬(x = y))
  by ((UnivCD THENA Auto)
    CollapseTHEN (((AutoBoolCase y)
      CollapseTHEN (((((
        RWO "eqtt_to_assert" 0)
      CollapseTHENA (Auto·))·)
      CollapseTHEN (((((
        RWO "eqff_to_assert" 0)
      CollapseTHENA (Auto·))·)
      CollapseTHEN (((((
        RW assert_pushdownC 0)
      CollapseTHENA (Auto·))·)
      CollapseTHEN (Auto·))·))·))·))·)

```

1:

1. $x : \mathbb{B}$
 2. $y : \mathbb{B}$
 3. $\neg(\uparrow y)$
 4. $\uparrow x$
- ⊢ $\neg\neg(\uparrow x)$

2:

1. $x : \mathbb{B}$
 2. $y : \mathbb{B}$
 3. $\neg(\uparrow y)$
 4. $\neg\neg(\uparrow x)$
- ⊢ $\uparrow x$

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