Inference at $*$ 2 1
 of proof for Lemma can-apply-fun-exp-add-iff:

1. A : Type
2. n : $\mathbb{N}$
3. m : $\mathbb{N}$
4. f : $A \rightarrow (A$ + Top)
5. x : A
6. (↑can-apply($f\hat{}m$;x)) & (↑can-apply($f\hat{}n$;do-apply($f\hat{}m$;x)))

⊢↑can-apply($f\hat{}n$ o $f\hat{}m$;x)
 by ((Unfold ‘can-apply‘ (0)·)
 CollapseTHEN (((RepUR “p-compose“ (0)·)

  CollapseTHEN ((((((if (0) =0 then SplitOnConclITE else SplitOnHypITE (0))·)

  CollapseTHENA (Auto·))·)
 CollapseTHEN ((((Try (Fold ‘can-apply‘ 0))·)
 CollapseTHEN (
  Auto·))·))·))·))·

  .

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http://www.nuprl.org/FDLcontent/p0_963683_/p28_1028098_{can-apply-fun-exp-add-iff}2_1.html