

Inference at \* 1 2  
of proof for Lemma sub-equality:

1.  $T : \text{Type}$
  2.  $P : T \rightarrow \mathbb{P}$
  3.  $i : T$
  4.  $u : T$
  5.  $i = u$
  6.  $P(u)$
  7.  $P(i)$
- $\vdash i = u$   
by EqTypeCD

1:

$\vdash i = u$

2: .....set predicate..... NILNIL

$\vdash \{j:T \mid P(j)\}$

3: .....wf..... NILNIL

8.  $T$

$\vdash \{j:T \mid P(j)\} = \{j:T \mid P(j)\}$

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