Inference at $*$
of proof for Lemma Agatha Murder Puzzle (JProver)Lori2R:

$\vdash$ Agatha hates Charles & Agatha hates Agatha
  & ($\forall p$:Person. $\neg p$ is richer than Agatha $\Rightarrow$ The Butler hates p)
  & ($\forall p$:Person. Agatha hates $p \Rightarrow \neg$Charles hates p)
  & ($\forall p$:Person. Agatha hates $p \Rightarrow$ The Butler hates p)
  & ($\forall p$:Person. p likes Agatha $\vee p$ likes The Butler $\vee p$ likes Charles)
  & ($\forall p, q$:Person. p kills $q \Rightarrow \neg p$ is richer than q)
  & ($\forall p, q$:Person. p kills $q \Rightarrow p$ hates q)
  $\Rightarrow$ The Butler did not kill Agatha & Charles did not kill Agatha
  by Unfolds "likes notkills" 0 THEN impR THEN Repeat (andL 1)

  1:
    1. Agatha hates Charles
    2. Agatha hates Agatha
    3. $\forall p$:Person. $\neg p$ is richer than Agatha $\Rightarrow$ The Butler hates p
    4. $\forall p$:Person. Agatha hates $p \Rightarrow \neg$Charles hates p
    5. $\forall p$:Person. Agatha hates $p \Rightarrow$ The Butler hates p
    6. $\forall p$:Person. $\neg p$ hates Agatha $\vee \neg p$ hates The Butler $\vee \neg p$ hates Charles
    7. $\forall p, q$:Person. p kills $q \Rightarrow \neg p$ is richer than q
    8. $\forall p, q$:Person. p kills $q \Rightarrow p$ hates q
    $\vdash \neg$The Butler kills Agatha & $\neg$Charles kills Agatha
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